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SEARCH REQUEST FORM

Requestor's Name: _____ Serial Number: _____
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Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

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Date completed: <u>2/3</u>	Search Site: _____	Vendors: _____
Searcher: <u>O. Schaefer 272-2526</u>	STIC	IG
Terminal time: <u>37</u>	<u>CM-1</u> <u>FOI #61</u>	STN
Elapsed time: <u>12</u>	Pre-S	Dialog
CPU time: _____	Type of Search	APS
Total time: _____	<u>5</u> N.A. Sequence	Geninfo
Number of Searches: _____	A.A. Sequence	SDC
Number of Databases: _____	Structure	DARC/Questel
	Bibliographic	<u>✓</u> Other <u>Compu</u>

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:49:30 ; Search time 6 Seconds
(without alignments)
3.901 Million cell updates/sec

Title: us-09-886-942-8

Perfect score: 1767
Sequence: 1 atcagagcatatcgccga.....ttctcgagtcacgcgtcctt 1767

Scoring table: Gapop 10.0 , Gapect 0.0

Searched: 3 seqs, 6623 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 3 summaries

Database :
1: /home/sdavid/sdavid-tmp/jan04/leffers942/a01324.gb_pat:*
2: /home/sdavid/sdavid-tmp/jan04/leffers942/a01323.gb_pat:*
3: /home/sdavid/sdavid-tmp/jan04/leffers942/m60321.gb_v1:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	1719	97.3	2129	1 A01324	ACCESSION:A01324
2	1719	97.3	2133	2 A01323	ACCESSION:A01323
3	1707	96.6	2361	3 HSMIEP	ACCESSION:M60321

ALIGNMENTS

RESULT 1
A01324/c
LOCUS
DEFINITION Human cytomegalovirus synthetic 5' UTR (reverse complement) of
ACCESSION A01324
VERSION A01324.1 GI:14759
KEYWORDS
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5
REFERENCE 1 (bases 1 to 2129)
Betaherpesvirinae: Cytomegalovirus.
AUTHORS
TITLE RECOMBINANT DNA EXPRESSION VECTORS
JOURNAL Patent: WO 8901036-A 2 09-FEB-1989;
FEATURES
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/organism="Human herpesvirus 5"
/mol_type="genomic DNA"
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BASE COUNT 587 a 518 c 508 g 516 t

Query Match 97.3%; Score 1719; DB 1; Length 2129;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY	1	ATATAGGCTATATATGCGGATATGAGCGACATCAGCCGCGCATGGCCAAATGCATATCG	60
DB	1773	ATATAGGCTATATATGCGGATATGAGCGACATCAGCCGCGCATGGCCAAATGCATATCG	1714
QY	61	ATCTATACATTAATCAATATATGCAATTAGCCATATTATTCATTTGTTATATACATTA	120
DB	1713	ATCTATACATTAATCAATATATGCAATTAGCCATATTATTCATTTGTTATATACATTA	1654
QY	121	ATCAATATTGGCTATTGGCCATTTGCAATGTTGATTCGGTATCATATATATGATATTAT	180
DB	1653	ATCAATATTGGCTATTGGCCATTTGCAATGTTGATTCGGTATCATATATATGATATTAT	1594
QY	181	ATTGGCCCATGTCATATATGACCCGCGCATGTTACATTTGATTTAGCTATATATATG	240
DB	1593	ATTGGCTATGTCATATATGACCCGCGCATGTTACATTTGATTTAGCTATATATATG	1534
QY	241	TATCATATAGCGGGTCATATTAGTTCATAGCCCATATATGAGTTCCGGCTTACATATT	300
DB	1533	TATCATATAGCGGGTCATATTAGTTCATAGCCCATATATGAGTTCCGGCTTACATATT	1474
QY	301	ACGTTAATATGCGCCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACATTAATG	360
DB	1473	ACGTTAATATGCGCCGCTGCTGACCGCCCAACGACCCCGCCCATTTGACATTAATG	1414
QY	361	ACGTATGTTCCATATGTAACGCCATATAGGACCTTTCATTTGACATGATGGTGAATAT	420
DB	1413	ACGTATGTTCCATATGTAACGCCATATAGGACCTTTCATTTGACATGATGGTGAATAT	1354
QY	421	TTACGGTAACTGCCCATTTGCGAGTACATCAAGTATCATATGCAATGCGGCCCT	480
DB	1353	TTACGGTAACTGCCCATTTGCGAGTACATCAAGTATCATATGCAATGCGGCCCT	1294
QY	481	ATTGACGTCAATGACGGTAAATGCGCCGCTGCAATTTAGCCAGTACATGACCTTACG	540
DB	1293	ATTGACGTCAATGACGGTAAATGCGCCGCTGCAATTTAGCCAGTACATGACCTTACG	1234
QY	541	GACTTTCCTATCTGGCAGTACATCTACGATTATAGTCATGCTATTAACATGGTATCGG	600
DB	1233	GACTTTCCTATCTGGCAGTACATCTACGATTATAGTCATGCTATTAACATGGTATCGG	1174
QY	601	TTTGGCAGTACATCAATGCGGCTGATAGCGGTTTGACTCAAGGGGATTTCCAGTCTC	660
DB	1173	TTTGGCAGTACATCAATGCGGCTGATAGCGGTTTGACTCAAGGGGATTTCCAGTCTC	1114
QY	661	CACCCCATGAGCTCAATGGAGTTGTTTGGACCAAAATCAACGGGACTTTCCAAA	720
DB	1113	CACCCCATGAGCTCAATGGAGTTGTTTGGACCAAAATCAACGGGACTTTCCAAA	1054
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DB	1053	TGTCGTAATATCCCGCCCGCTTGAAGCAATGGCGGTAGCGGTGAGGAGGTC	994
QY	781	TATATAGAGAGCTGTTTATGAAACCTGATTCGCTGAGAGCGCATCCAGCCTGT	840
DB	993	TATATAGAGAGCTGTTTATGAAACCTGATTCGCTGAGAGCGCATCCAGCCTGT	934
QY	841	TTTGACCTCATTAAGAGACACGGGACGATCCAGCTCCGGCGCGGAGACGTCATTT	900
DB	933	TTTGACCTCATTAAGAGACACGGGACGATCCAGCTCCGGCGCGGAGACGTCATTT	874
QY	901	GGAACGCGGATTTCCCGTCCAAAGAGTGAAGTATGCGCTTATATAGCTTATAGCAC	960
DB	873	GGAACGCGGATTTCCCGTCCAAAGAGTGAAGTATGCGCTTATATAGCTTATAGCAC	814
QY	961	ACCCCTTTGGC-TCTATGCAATGCTATATGTTTGGGCTTATACACCCCGCG	1019
DB	813	ACCCCTTTGGC-TCTATGCAATGCTATATGTTTGGGCTTATATACACCCCGCG	754

OY		1020	TTCCTTAGTACTAAGGTATGSETATAGCTTGAGCCATAAGGGGTGGGTATTGACCATAT	1079
Db		753	TTCCCAATGTTATAGGTATGGTATAGCTTAGCCTTAATGGTGGTATTGACCATTAT	694
OY		1080	TGACCACCTCCCCTATTGGTGAAGATACTTTCACATTAATCCAAATCATGAGCTCTTTGC	1139
Db		693	TGACCACTCCCTATTGGTGAAGATACTTTCATTAATCAATCAATGAGCTCTTTGC	634
OY		1140	CACAACTATCTCTATTGGCTATATGCCAATACTCTGTCCCTTGAGACTGACACGGATC	1199
Db		633	CACAACCTCTTTATTGGCTATATGCCAATACACTGTCCCTTGAGAGACTGACACGGATC	574
OY		1200	TGTATTTTAAAGAGATGGGGTCCCATTTATTAATTACAAATTCACATTAACAACAGCC	1259
Db		573	TGTATTTTAAAGAGATGGGGTCTCATTTATTTATTTAACAAATTCACATTAACAACACC	514
OY		1260	GTCGCCCGCTGCCTCGCATTTTTTAATTAAACATAGCTGGGATCTCACACCGAATCTGGGT	1319
Db		513	GTCCCCAATGCCCGCATTTTTTATTAAACATACGTGGGATCTCCACGCGAATCTGGGT	454
OY		1320	ACGTGTTCCGGAACATGGGCTCTTCTCCGGTAGCCGTGGGGCTTCCACATCCGAACCTTGG	1379
Db		453	ACGTGTTCCGGAACATGGGCTCTTCTCCGGTAGCCGCGGAGCTTCTACATCCGAACCTTGC	394
OY		1380	TCCCATGGCTCCAGGACTCATAGTTCGCTCGGCACTCTCTTGTCCTCCAACAGTGAAGCC	1439
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OY		1440	AGACTTAAAGCAGACAGATGCGCCACACACACAGTGTGCCGCAACAGGCCGTGGCGSTA	1499
Db		333	AGACTTAAAGCAGACAGATGCCCCACACACACAGTGTGCCGCAACAGGCCGTGGCGSTA	274
OY		1500	GGGATATGTCTGAAAATAGCTCGGAGATCGGGCTCGACCGCTGACGACAGATGAGA	1559
Db		273	GGGATATGTCTGAAAATAGAGCTCGGGAGCGGGCTTGCAACCGCTGACGACATTTGAGA	214
OY		1560	CTTAAAGGAGAGGGGAGAAAGACGACGAGCTGATGTTGTGTTCTGTAAGACTCA	1619
Db		213	CTTAAAGGAGAGGGGAGAAAGATGCAAGCAGCTGATGTTGTGTTCTGTAAGAGACTCA	154
OY		1620	GAGGTAACTCCGTTGCGSGTCTGTAAACGGTGAAGGGCAGTGTAGTCTGACAGTACTC	1679
Db		153	GAGGTAACTCCCGTTGCGSGTCTGTAAACGGTGAAGGGCAGTGTAGTCTGACAGTACTC	94
OY		1680	GTTGCTGCGCGCGCGCCACCAAGACATATATAGCTGACAGACTTAAACGACTGTCTTTCC	1739
Db		93	GTTGCTGCGCGCGCGCCACCAAGACATATATAGCTGACAGACTTAAACAGCTGTCTTTCC	34
OY		1740	ATGGGTCTTTTCTGCAATCACCGTCTT	1767
Db		33	ATGGGTCTTTTCTGCAATCACCGTCTT	6
RESULT 2				
A01323		A01323	2133 bp	DNA linear PAT 08-FEB-1993
LOCUS				
DEFINITION			Human cytomegalovirus synthetic 5' UTR of hCMV-MIE DNA.	
ACCESSION		A01323		
VERSION		A01323.1	GI:14758	
KEYWORDS				
SOURCE				
ORGANISM				
			Human herpesvirus 5	
			Human herpesvirus 5	
			Vituses; dsDNA viruses, no RNA stage; Herpesviridae;	
			Betaherpesvirinae; Cytomegalovirus.	
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AUTHORS			1 (bases 1 to 2133)	
JOURNAL			RECOMBINANT DNA EXPRESSION VECTORS	
FEATURES			Patent: WO 8901036-A 1 09-FEB-1989;	
			location/Qualifiers	
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Best Local Similarity	97.8%; Pred. No. 0;	
Matches 1229; Conservative	0; Mismatches 38; Indels 1; Gaps 1;	
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QY	61 ATCTAATATGAAATCAATATTTGGCAATTTACCATATATTTCAATGGTTATATATGCAATA	120
DB	417 ATCTAATATGAAATCAATATTTGGCAATTTACCATATATTTCAATGGTTATATATGCAATA	476
QY	121 ATCAATATTTGGCTATTGGCCATTGCATACGTTGTATCGTATCAATATATGATTAAT	180
DB	477 ATCAATATTTGGCTATTGGCCATTGCATACGTTGTATCATATCAATATATGATTAAT	536
QY	181 ATTGCCCATGTCCAAATATGACCGCCATGTGACATTGATTTAGTACTAGTTAATATG	240
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DB	597 TAATCAATATGAGGGGTCAATTAGTTCATAGCCCATATATATGAGTTCGGCGTTACATACTT	656
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DB	657 ACGGTAATATGCGCGCGCTGACCGGCCCAAGACCCCGCCATTGACGTCAATATATG	716
QY	361 ACGTATGTTCCCATATGTAACGCCAATATAGGACTTTTCAATTGACGTCAATGCGTGAAT	420
DB	717 ACGTATGTTCCCATATGTAACGCCAATATAGGACTTTTCAATTGACGTCAATGCGTGAAT	776
QY	421 TTAGCGTAAATGCGCCACTTGGCAGTACATTAAGTATATCATATAGCCAAATGCCCGCCCT	480
DB	777 TTAGCGTAAATGCGCCACTTGGCAGTACATTAAGTATATCATATAGCCAAATGCCCGCCCT	836
QY	481 ATTGACGTCATGACGGTAAATGCGCGCGCTGCGATTATGCGCCAGTACATGACTTATCG	540
DB	837 ATTGACGTCATGACGGTAAATGCGCGCGCTGCGATTATGCGCCAGTACATGACTTATCG	896
QY	541 GACTTTCCTACTTGGCAGTACATCTACGTAATTTAGTATCGCTATTATACATGATGATGCG	600
DB	897 GACTTTCCTACTTGGCAGTACATCTACGTAATTTAGTATCGCTATTATACATGATGATGCG	956
QY	601 TTTTGGCAGTACATCAATGAGCGGTGATATAGCGGTTTGAATCAAGGGGATTTCCAAATCTC	660
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Db 1857 GGGTATGCTCTGAATAATGAGCTGCGGAGTCCGCTGCGGCTGACGAGATGAGTA 1916
Oy 1560 CTTAAGGAGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1619
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Oy 1620 GAGTAACTCCCTGCGGCTGCTTAAAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 1679
Db 1977 GAGTAACTCCCTGCGGCTGCTTAAAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAG 2036
Oy 1680 GTTGTGCG 1739
Db 2037 GTTGTGCG 2096
Oy 1740 ATGGGCTTTTCTGCAAGTACCGCTCTT 1767
Db 2097 ATGGGCTTTTCTGCAAGTACCGCTCTT 2124

RESULT 3
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LOCUS Human cytomegalovirus major immediate-early protein gene, 5' end.
DEFINITION M60321
ACCESSION M60321.1 GI:330624
VERSION immediate-early protein.
KEYWORDS Human herpesvirus 5
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5
Virus; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus.
REFERENCE 1 (bases 1 to 2361)
AUTHORS Chapman, B.S., Thayer, R.M., Vincent, K.A. and Haiswood, N.L.
TITLE Effect of intron A from human cytomegalovirus (Tome) immediate
Nucleic Acids Res. 19, 3937-3986 (1991)
COMMENT Original source text: Human cytomegalovirus DNA.

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Location/Qualifiers
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TATA_signal
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Best Local Similarity 98.8%; Pred. No. 0;
Matches 1747; Conservative 0; Mismatches 17; Indels 4; Gaps 4;
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Db 335 ATATGAGCTATATGCGGATAGAGCGACATCAAGCTGCGCAATGCGCAATGCAATATCG 394
Oy 61 ATCTAATGATGAATCAATATTTGGCAATTTAGCCATATTTATTTGTTATATACATPA 120
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DB 1833 GGGTATGTGTCTGAAAATAGCTCGAGATCGGGCTTGCACCG-7GACGCAATGGAAGA 1891
QY 1560 CTTAAGGACGCGGACAGAAAGACGACGAGCTGAGTTGTGTCTGATAAGAGTCA 1619
DB 1892 CTTAAGGACGCGGACAGAAAGATGACGAGCTGAGTTGTGTATTTGATAGAGTCA 1951
QY 1620 GAGGTAACTCCGTTGGGTGTGTTAACGCTGAGAGGCGAGTGTAGTCTGAGCAGTACTC 1679

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DB 1952 GAGTAACTCCCGTGGCGGTGTGTTAACGTTGAGAGGCGAGTGTAGTCAAGCAGTACTC 2011
QY 1680 GTTGCTGCGCGCGCGCCACACAGATATAGCTGACAGACTAAGGACTGTTCTTTC 1739
DB 2012 GTTGCTGCGCGCGCGCCACACAGATATAGCTGACAGACTAAGGACTGTTCTTTC 2071
QY 1740 ATGGGTCTTTCTGCAAGTCAACCGTCTT 1767
DB 2072 ATGGGTCTTTCTGCAAGTCAACCGTCTT 2099

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Search completed: January 29, 2004, 09:49:37
 Job time : 7 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:42:38 ; Search time 6 seconds
(without alignments)
3.901 Million cell updates/sec

Title: us-09-886-942-8

Perfect score: 1767
Sequence: 1 atcagagcctatccgcga.....ttctcagtcacgcgtcctt 1767

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.0

Searched: 3 seqs, 6623 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 3 summaries

Database :
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3: /home/sdavid/sdavid-tmp/jan04/leffers942/m60321.gb_pat:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1696.8	96.0	2361	3 HSMIEP	ACCESSION:M60321
2	1696.2	96.0	2129	1 A01324	ACCESSION:A01324
3	1696.2	96.0	2133	2 A01323	ACCESSION:A01323

ALIGNMENTS

RESULT 1
HSMIEP 2361 bp DNA linear VRL 02-AUG-1993
LOCUS Human cytomegalovirus major immediate-early protein gene, 5' end.
DEFINITION M60321
ACCESSION M60321
VERSION M60321.1 GI:330624
KEYWORDS immediate-early protein.
SOURCE Human herpesvirus 5
ORGANISM Human herpesvirus 5
Virus; dsDNA viruses, no RNA stage; Herpesviridae;
Betaherpesvirinae; Cytomegalovirus.

REFERENCE
AUTHORS Chapman,B.S., Thayer,R.M., Vincent,K.A. and Haigwood,N.L.
TITLE Effect of intron A from human cytomegalovirus (Towne) immediate
early gene on heterologous expression in mammalian cells
JOURNAL Nucleic Acids Res. 19, 3937-3986 (1991)
COMMENT Original source text: Human cytomegalovirus DNA.
FEATURES
location/Qualifiers
1..2361
/organism="Human herpesvirus 5"
/mol_type="genomic DNA"
/db_xref="taxon:10359"

source

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CAAT_signal	1082..1086	
TATA_signal	1115..1120	
exon	join(1144..1264, 2089..2176, 2289..2361)	
intron	1265..2088	
exon	2089..2176	
CDS	join(2106..2176, 2289..2361)	
BASE COUNT	571 a 567 c 574 g 649 t	
Query Match	96.0%; Score 1696.8; DB 3; Length 2361;	
Best Local Similarity	98.8%; Pred. No. 0;	
Matches 1747; Conservative	0; Mismatches 17; Indels 4; Gaps 4;	
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DB	395 ATCTATACATTAATCAATATATGGAATAGGCATATATTCATTGTTATATAGCA 454	
QY	121 ATCATATTTGGCTATTTGGCATTTGATGCTGTATCCGTATCATATATGATCAT 180	
DB	455 ATCATATTTGGCTATTTGGCATTTGATGCTGTATCCGTATCATATATGATCAT 514	
QY	181 ATTTGGCCATGTCATATATAGACCGCATTTGATGCTGTATTTGATTTAATAG 240	
DB	515 ATTTGGCCATGTCATATATAGACCGCATTTGATGCTGTATTTGATTTAATAG 574	
QY	241 TATCATATACGGGGTCATTTAGTTCAATAGCCCATATATGAGTTCCGCTTACAT 300	
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QY	361 ACGTATGTCCTCATATAGTAAAGGCAATAGGACCTTTCCATAGTCAAGGGTGA 420	
DB	694 ACGTATGTCCTCATATAGTAAAGGCAATAGGACCTTTCCATAGTCAAGGGTGA 753	
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DB	754 TTACGTTAACTGCCCACTTGGCAGTACATCAAGTATCATATGCAAGTCCGCG 813	
QY	480 TATTGACGTCAATGACGTTAAATGCGCCGCTGCGCATTTAGCCGATACATG 539	
DB	814 TATTGACGTCAATGACGTTAAATGCGCCGCTGCGCATTTAGCCGATACATG 873	
QY	540 GGAATTCTCTAGTGGCAGTACATCTAGTATTTAGCATGCTATTTACAGATG 599	
DB	874 GGAATTCTCTAGTGGCAGTACATCTAGTATTTAGCATGCTATTTACAGATG 933	
QY	600 GTTTTGGCAGTACATCAATGAGCGGTGATAGCGTTTGACTACAGGGGATTTCAAGTCT 659	

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Db      994 CCAACCCATGAGTCAATGGGAGTTTGTGGCACAACCAATCAAGGGACTTTCCAAA 1053
Qy      720 ATGTGTAATTAACCCCGCGCTTGAAGCAATGGGCGGTAGCGGTGACGTGGAGAGT 779
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Qy      780 CTATATAGCAGAGCTGTTTATGAAACCGTCAGATGCGCTGGAGAGCCATCCAGCTG 839
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Qy      840 TTTTGAACCTCATGAGAGACACGGGGACCGATCCAGCTCGGGGGGGAAGGAGTCAAT 899
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Qy      900 TGGAAACCGGATTTCCCGTGCAGAGTGAAGTAAGTACCGCTATAGACTATAGGCA 959
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Qy      960 CACCCCTTTGGCTTTATGCAATGCTATGCTTTTGGCTTTGGGGCTTATACACCCCGC 1019
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Qy      1260 GTCCCCCGTCCCGCAGTTTATTTAATAACATAGCGTGGAGTCTCCAGCAATCTCGGGT 1319
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Qy      1320 ACGTGTTCGGACATGGGCTCTTCTCGGTAGCGGTGGGCTTCCACATCCGAGCCCTGG 1379
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Qy      1380 TCCCATGCTCCAGCGACTAGTGTGCTGGGAGCTCTTGTGCCCAACAGTGGAGGCC 1439
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Qy      1500 GGGTATGTGTGAAAATGAGCTCGAGATCGGGCTGCAACCGCTGACGAGATGGAAGA 1559
Db      1833 GGGTATGTGTGAAAATGAGCTCGAGATCGGGCTGCAACCG -TGAACGAGATGGAAGA 1891
Qy      1560 CTTAAGGACACGGCAGAAAGAGACGACGAGCTGAGTGTGTGTCTATTAAGTCA 1619
Db      1892 CTTAAGGACACGGCAGAAAGAGATGACGAGCTGAGTGTGTGTCTATTAAGTCA 1951
Qy      1620 GAGGTAACTCCCGTGTGGTGTCTGTAAACGCTGAGGAGGAGTGTAGAGTCACTC 1679
Db      1952 GAGGTAACTCCCGTGTGGTGTCTGTAAACGCTGAGGAGGAGTGTAGAGTCACTC 2011
Qy      1680 GTTGCTGCGCGCGCGCACACAGCATTAATAGCTGACAGACTAACGAGCTGTTCTTCC 1739

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Db      2072 ATGGAGCTTTTCTGACAGTCAACCGTCTT 2099

RESULT 2
A01324/c
LOCUS      A01324      2129 bp      DNA      linear      PART 02-MAR-1993
DEFINITION Human cytomegalovirus synthetic 5' UTR (reverse complement) of
            HCMV-MIB DNA.
ACCESSION  A01324
VERSION    A01324.1 GI:14759
KEYWORDS
SOURCE     Human herpesvirus 5
            Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
            Betaherpesvirinae; Cytomegalovirus.
REFERENCE  1 (bases 1 to 2129)
            RECOMBINANT DNA EXPRESSION VECTORS
AUTHORS   Patent: WO 8901036-A 2 09-FEB-1989;
TITLE      Location/Qualifiers
JOURNAL   1. 2129
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            /db_xref="taxon:10359"
BASE COUNT 587 a 518 c 508 g 516 t

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Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

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Qy      301 ACGGTAAATGGCCCGCTGGCTGACCGCCCAACGACCCCGCCCATTTGACGTCAATATATG 360
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Qy      361 ACGTATGTTCCCATATGTAACGCCCATATAGGAGACTTTTCATATGACGTCAATAGGCTGAGTAT 420
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Qy      421 TTACGGTAAATGCCACCTTGACAGTACATCAAGTATCATATGCGCAAGTCCGCGCCCT 480
Db      1353 TTACGGTAAATGCCACCTTGACAGTACATCAAGTATCATATGCGCAAGTCCGCGCCCT 1294
Qy      481 ATTGACGTCAATGACCGGTAAATGCGCCGCTGCAATTATGCCAGTACATGACCTTAACG 540
Db      1293 ATTGACGTCAATGACCGGTAAATGCGCCGCTGCAATTATGCCAGTACATGACCTTAACG 1234
Qy      541 GACTTCTCTACTTTGGCAGTACATCTAAGTATTAATGTCATGCTATTAATCAATGGTGAATCGG 600
Db      1233 GACTTCTCTACTTTGGCAGTACATCTAAGTATTAATGTCATGCTATTAATCAATGGTGAATCGG 1174

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DB	93	GTTCCTCGCGCGCGGCACACAGACATTAATAGCTGACAGACTAAAGGACTGTCCTTC	34
QY	1740	ATGGGTCCTTTCTGCACTCAACGTCCTT	1767
DB	33	ATGGGTCCTTTCTGCACTCAACGTCCTT	6
RESULT 3			
A01323	A01323	2133 bp	DNA
LOCUS			linear
DEFINITION	Human cytomegalovirus synthetic 5' UTR of hCMV-MIE DNA.	PAT 08-FEB-1993	
ACCESSION	A01323		
VERSION	A01323.1	GI:14758	
KEYWORDS			
SOURCE			
ORGANISM	Human herpesvirus 5		
REFERENCE	Human herpesvirus 5		
AUTHORS	Vinuesa; dsDNA viruses, no RNA stage; Herpesviridae; Betaherpesvirinae; Cytomegalovirus.		
TITLE	1 (bases 1 to 2133)		
JOURNAL	RECOMBINANT DNA EXPRESSION VECTORS		
FEATURES	Patent: WO 8901036-A 1 09-FEB-1989;		
SOURCE	1. 2133		
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	1. 2133		
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DB	417	ATCTAATCATTAATCAATATTTGGCAATTAGCCATATTTATTCATTTGTTATATAGCATAA	476
QY	121	ATCAATATTTGGCTATTTGGCCATTGCAATACGTTGATCCGATCATTAATATATGACATTTAT	180
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QY	241	TAAATCAATTACGGGGCTATTAGTTCAATGCCCATATATATGAGTTCCGGTTACATACTT	300
DB	597	TAAATCAATTACGGGGCTATTAGTTCAATGCCCATATATATGAGTTCCGGTTACATACTT	656
QY	301	ACGGTAATATGCGCCCGCTGGCTGACCGGCCACAGACACCCCGCCCATTTGACGTCATATATG	360
DB	657	ACGGTAATATGCGCCCGCTGGCTGACCGGCCACAGACACCCCGCCCATTTGACGTCATATATG	716
QY	361	ACGTAATGTTCCCATATAGTAACGCCAATAGAGGACTTTTCATTTAGCTCAATAGGTTGAGATAT	420
DB	717	ACGTAATGTTCCCATATAGTAACGCCAATAGAGGACTTTTCATTTAGCTCAATAGGTTGAGATAT	776
QY	421	TTACGGTAATCTGCCCACTTGGCAGTACATCAAGTGTATCATATATGCCAAGTCCGCCCTCT	480
DB	777	TTACGGTAATCTGCCCACTTGGCAGTACATCAAGTGTATCATATATGCCAAGTCCGCCCTCT	836
QY	481	ATTGACGTCATATGACGGTAATATGCGCCGCTGGATTAATGCGCCAGTACATAGCTTATACG	540
DB	837	ATTGACGTCATATGACGGTAATATGCGCCGCTGGATTAATGCGCCAGTACATAGCTTATACG	896

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QY 541 GACTTTCTACTTGGCAGTACATCTAGTATTAGTCATCGCTATTACATGCTATGCGG 600
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QY 601 TTTTGGCAGTACATCAATGGGCGTGTAGTAGCGGTTTGTACTACGGGGATTTCAGAGCTC 660
Db 957 TTTTGGCAGTACATCAATGGGCGTGTAGTAGCGGTTTGTACTACGGGGATTTCAGAGCTC 1016
QY 661 CACCCATTGACGTCATGGGAGTTTGTGGACCAAAATCAACGGGACTTTCAAAA 720
Db 1017 CACCCATTGACGTCATGGGAGTTTGTGGACCAAAATCAACGGGACTTTCAAAA 1076
QY 721 TGTGTATATACCCCGCCCGCTTACCGAAATGGCGCGTGTAGCGCTGTACGCTGGAGCTC 780
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Db 1137 TATATAGCAGAGCTCGTTTGTAGTAAACCGTGTAGTACGCTGTAGAGCGCATCCAGCTGT 1196
QY 841 TTTGACCTCCATAGAGACACCGGGACCGATCCAGCTCCGCGCGCGGAAACGGTGCATT 900
Db 1197 TTTGACCTCCATAGAGACACCGGGACCGATCCAGCTCCGCGCGCGGAAACGGTGCATT 1256
QY 901 GGAACGCGGATCCCGCTGCCAAGTGTAGCTAAGTACCGCTATAGACTCTATAGGAC 960
Db 1257 GGAACGCGGATCCCGCTGCCAAGTGTAGCTAAGTACCGCTATAGACTCTATAGGAC 1316
QY 961 ACCCCTTTGGC-TCTTATAGATGCTATAGTATGCTTTTGGGCGCTTATACACCCCGC 1019
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QY 1020 TTCCTTATGCTATAGTATGCTATAGTATGCTTATAGGCGTGTATATGACATTA 1079
Db 1377 TTCCTTATGCTATAGTATGCTATAGTATGCTTATAGGCGTGTATATGACATTA 1436
QY 1080 TGACCACTCCCTATTTGTGTAGTACATCTTTCATTAATCCATTAACATGCGCTTTGC 1139
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Db 1677 AGGATTCGCGGACATGGGCTCTCTCGGTAGCGGTGGGGCTTCTACATCCGAGCCCTGC 1736
QY 1380 TCCCATGCTCCAGCGACTATGTCGCTCGGAGCTCTTGTCTCCCAACAGTGAAGCC 1439
Db 1737 TCCCATGCTCCAGCGACTATGTCGCTCGGAGCTCTTGTCTCCCAACAGTGAAGCC 1796
QY 1440 AGACTTAGGACAGACGATGCCACCAACCAACAGTGTCCGCAAAAGCCGTGGCGGTA 1499
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QY 1500 GGGTATGTCCTGAAAAATGAGCTCGGAGTGGGAGCGGGCTTGACCCGTGACGCAATTTGAAGA 1559
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QY 1560 CTTAAGGACGCGGACAGAAAGACGCGGAGCTGAGTGTGTGTTCTGATTAAGACTCA 1619
Db 1917 CTTAAGGACGCGGACAGAAAGATGACGAGCTGAGTGTGTGTTCTGATTAAGACTCA 1976
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Db 1977 GAGGTAACTCCGTTGGGTGCTGTAAACGATGGAGGGCAGTGTAGTCTGAGCAGTACTC 2036
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Db 2037 GTTGTGCGCGCGCGCCACACAGACATTAATAGCTGACAGACTAACGAGCTTCTTTCC 2096
QY 1740 ATGGGTCTTTTCTGACGTACACGCTCTT 1767
Db 2097 ATGGGTCTTTTCTGACGTACACGCTCTT 2124

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Search completed: January 29, 2004, 09:42:45
Job time : 7 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 09:47:50 ; Search time 7 Seconds
(without alignments)
3.344 Million cell updates/sec

Title: us-09-886-942-8

Perfect score: 1767
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Scoring table: Gapop 10.0 , Gapext 0.5

Searched: 3 seqs, 6623 residues

Total number of hits satisfying chosen parameters: 6

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 3 summaries

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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	1718.5	97.3	2129	1 A01324	ACCESSION:A01324
2	1718.5	97.3	2133	2 A01323	ACCESSION:A01323
3	1705	96.5	2361	3 HSMIEP	ACCESSION:M60321

ALIGNMENTS

RESULT 1
A01324/c 2129 bp DNA linear PAT 02-MAR-1993
LOCUS Human cytomegalovirus sythetic 5' UTR (reverse complement) of
DEFINITION hCMV-MIE DNA.
ACCESSION A01324
VERSION A01324.1 GI:14759
KEYWORDS Human herpesvirus 5
SOURCE Human herpesvirus 5
ORGANISM Viruses; dsDNA viruses, no RNA stage; Herpesviridae;
Betaherpesvirinae; Cytomegalovirus.
1 (bases 1 to 2129)
REFERENCE 1
AUTHORS RECOMBINANT DNA EXPRESSION VECTORS
TITLE Patent: WO 8901036-A 2 09-FEB-1989;
JOURNAL Location/Qualifiers
FEATURES
1. 2129
/organism="Human herpesvirus 5"
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BASE COUNT 587 a 518 c 508 g 516 t

Query Match 97.3% ; Score 1718.5 ; DB 1 ; Length 2129 ;
Best Local Similarity 97.8% ; Pred. No. 0 ;
Matches 1729 ; Conservative 0 ; Mismatches 38 ; Indels 1 ; Gaps 1 ;

QY	1	ATATAGGCTATATGCGCCGATATAGAGCGACATCAAGCCGCGACATGCGCAATGCTATTCG	60
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QY	61	ATCTATACATGATCAATATATGCAATATGCAATATGCAATATATGCAATATATGCAATAA	120
DB	1713	ATCTATACATGATCAATATATGCAATATGCAATATGCAATATATGCAATATATGCAATAA	1654
QY	121	ATCAATATGCTATGCTATGCGCATATGCGCATATGCGCATATGCGCATATGCGCATATG	180
DB	1653	ATCAATATGCTATGCTATGCGCATATGCGCATATGCGCATATGCGCATATGCGCATATG	1594
QY	181	ATTGCGCCATGCTCAATATGCAATATGCAATATGCAATATGCAATATGCAATATGCAAT	240
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QY	301	ACGTAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCCCATGCAATGCAATATG	360
DB	1473	ACGTAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCCCATGCAATGCAATATG	1414
QY	361	ACGTAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCCCATGCAATGCAATATG	420
DB	1413	ACGTAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCCCATGCAATGCAATATG	1354
QY	421	TACGTAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCCCATGCAATGCAATATG	480
DB	1353	TACGTAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCCCATGCAATGCAATATG	1294
QY	481	ATTGACGTCATGACGATGCAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCTG	540
DB	1293	ATTGACGTCATGACGATGCAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCTG	1234
QY	541	GACTTCTCTACTTGGCAGTACATCTAGCATGATGATGATGATGATGATGATGATGATG	600
DB	1233	GACTTCTCTACTTGGCAGTACATCTAGCATGATGATGATGATGATGATGATGATGATG	1174
QY	601	TTTTGGCAGTACATGATGCAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCTG	660
DB	1173	TTTTGGCAGTACATGATGCAATATGCGCGCGCTGCTGACCGCCCAAGACCGCCCGCTG	1114
QY	661	CACCCATTGACGTCATGCAATGCGGAGTTGTTTGGACCAAAATCAAGGAGCTTCCAAA	720
DB	1113	CACCCATTGACGTCATGCAATGCGGAGTTGTTTGGACCAAAATCAAGGAGCTTCCAAA	1054
QY	721	TGTCGTAATACCCCGCCCGCTGACGCAATGCGCGCGCTGACGCAATGCGCGCGCTG	780
DB	1053	TGTCGTAATACCCCGCCCGCTGACGCAATGCGCGCGCTGACGCAATGCGCGCGCTG	994
QY	781	TATATAGAGAGGCTGCTTATGTAACCGTCAAGTCGCTGAGAGACGCTATCAAGCTGT	840
DB	993	TATATAGAGAGGCTGCTTATGTAACCGTCAAGTCGCTGAGAGACGCTATCAAGCTGT	934
QY	841	TTTGAACCTCAGAGAAGACACCGGAGCCGATCAGGCTCCGGGCGGGAGCGGTGATT	900
DB	933	TTTGAACCTCAGAGAAGACACCGGAGCCGATCAGGCTCCGGGCGGGAGCGGTGATT	874
QY	901	GGAAGCGGATTCCTCCGTCGCAAGAGTACGTAAGTACCGCTATAGAGGAC	960
DB	873	GGAAGCGGATTCCTCCGTCGCAAGAGTACGTAAGTACCGCTATAGAGGAC	814
QY	961	ACCCCTTTGGC-TCTTATGATGCTATGCTATGCTTTTGGCTTGGGCTTATACCCCGC	1019
DB	813	ACCCCTTTGGC-TCTTATGATGCTATGCTATGCTTTTGGCTTGGGCTTATATACCCCGC	754

QY	1020	TTCCCTTAATGCATATAGGTATAGGTATAGCTTTAGCCATATAGGGGTGGGTATATGACATTAAT	1079
Db	753	TTCCCAATGTTATATAGGTATAGGTATAGCTTTAGCCATATAGGTGGGTATATGACATTAAT	694
QY	1080	TGACCACCTCCCTATTTGGTGAAGATACCTTCCATTAATCAATTAACATGAGCTCTTTGGC	1139
Db	693	TGACCACTCCCTATTTGGTGAAGATACCTTCCATTAATCAATTAACATGAGCTCTTTGGC	634
QY	1140	CACAACTATCTCTATTTGGCTATATGCCAATACTCTGTCTTCAAGACTGACACGAGCTC	1199
Db	633	CACAACTCTCTTATTTGGCTATATGCCAATACTCTGTCTTCAAGACTGACACGAGCTC	574
QY	1200	TGTATTTTAAACAGGATAGGGGTCCTCAATTAATTAACAAATTCATATTAACAACAGCC	1259
Db	573	TGTATTTTAAACAGGATAGGGGTCCTCAATTAATTAACAAATTCATATTAACAACAGCC	514
QY	1260	GTCCCCCGTCCCGCAGTTTATTAATAACATAGACGTGGAGATCTCAACGCAATCTCGGGT	1319
Db	513	GTCCCCCAGTCCCGCAGTTTATTAATAACATAGACGTGGAGATCTCAACGCGAATCTCGGGT	454
QY	1320	ACGTGTCCGACATGAGGCTCTTCTCCGGTAAACGGTGGGGCTTCCATCCGAGCCTTGG	1379
Db	453	ACGTGTCCGACATGAGGCTCTTCTCCGGTAAACGGTGGGGCTTCCATCCGAGCCTTGGC	394
QY	1380	TCCCATGCTCCAGGACTCATATGCTGCTCGGACGCTCTTGTCCCAACAGTGGAGGCC	1439
Db	393	TCCCATGCTCCAGGACTCATATGCTGCTCGGACGCTCTTGTCTTCAACAGTGGAGGCC	334
QY	1440	AGACTTAGGACACAGCAGATGCCACACACACAGTGTGCCCAACAGGCCGTGGAGCTA	1499
Db	333	AGACTTAGGACACAGCAGATGCCACACACACAGTGTGCCCAACAGGCCGTGGAGCTA	274
QY	1500	GCGATGTGTCTGAATAATGAGCTCGAGATCGGGCTCGACCGCTGACGACAGATGAGA	1559
Db	273	GCGATGTGTCTGAATAATGAGCTCGGGAGCGGGCTTSCACCGCTGACGATTTGAGA	214
QY	1560	CTTAAGGACAGCGGACGAAGAAGACGACGACGCTGATGTTGTGTTCTGTATAGATCA	1619
Db	213	CTTAAGGACAGCGGACGAAGAAGATCCAGGACGCTGATGTTGTGTTCTGTATAGATCA	154
QY	1620	GAGGTAACTCCCGTTCGCGTGTCTGTTAACGGTGAAGGGCAGTGTAGTCTGACAGTACTC	1679
Db	153	GAGGTAACTCCCGTTCGCGTGTCTGTTAACGGTGAAGGGCAGTGTAGTCTGACAGTACTC	94
QY	1680	GTTGTGCGCGCGCGGCCACACAGACATATATAGCTGACAGCTTAACGACGTGTTCTTCC	1739
Db	93	GTTGTGCGCGCGCGGCCACACAGACATATATAGCTGACAGCTTAACGACGTGTTCTTCC	34
QY	1740	ATGGGTCTTTTCTGTGACATCACCGTCTTT	1767
Db	33	ATGGGTCTTTTCTGTGACATCACCGTCTTT	6
RESULT 2			
LOCUS	A01323	2133 bp	DNA linear PAT 08-FEB-1993
DEFINITION	Human cytomegalovirus synthetic 5' UTR of hCMV-MIE DNA.		
ACCESSION	A01323		
VERSION	A01323.1	GI:14758	
KEYWORDS			
SOURCE	Human herpesvirus 5		
ORGANISM	Human herpesvirus 5		
REFERENCE	1	(bases 1 to 2133)	
AUTHORS	RECOMBINANT DNA EXPRESSION VECTORS		
TITLE	Patent: WO 8901036-A 1 09-FEB-1989;		
JOURNAL	Location/Qualifiers		
FEATURES	1..2133		
SOURCE	/organism="Human herpesvirus 5"		
	/mol_type="genomic DNA"		
	/db_xref="taxon:103359"		

5'UTR	1.. 2133	1.. 2133	1.. 2133
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Query Match	97.3%	Score 1718.5	DB 2; Length 2133;
Best Local Similarity	97.8%	Pred. No. 0;	
Matches 1229; Conservative	0;	Mismatches 38;	Indels 1; Gaps 1
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DB	357	ATATGAGCTATATATGCGGATBAGGGCAATCAAGCTGCGCAATGCGCAATGCTATATCG	416
QY	61	ATCTATACATGAATCAATATTTGGCAATTAAGCATATATTCATGTGTTATATACATPA	120
DB	417	ATCTATACATGAATCAATATTTGGCAATTAAGCATATATTCATGTGTTATATACATPA	476
QY	121	ATCATATATTTGGCTATTTGGCCATTTGGCATCTGTGTATCCGTATCAATATATGATATTTAT	180
DB	477	ATCATATATTTGGCTATTTGGCCATTTGGCATCTGTGTATCCGTATCAATATATGATATTTAT	536
QY	181	ATTGGCCCATGTCCAAATATGACCCGCATGTTGACATTTATATTTATATATG	240
DB	537	ATTGGCTCATGTCCAAATATGACCCGCATGTTGACATTTATATTTATATATG	596
QY	241	TAAATCAATTAAGGGGTCTATAGTTCAATGATGCCCATATATATGAGTTCCGGGTATCAATCTT	300
DB	597	TAAATCAATTAAGGGGTCTATAGTTCAATGATGCCCATATATATGAGTTCCGGGTATCAATCTT	656
QY	301	ACGGTAATATGACCCGCTGGCTGACCCGCCAAGCAGCAGCCGCCCATTTGACGTCAATATG	360
DB	657	ACGGTAATATGACCCGCTGGCTGACCCGCCAAGCAGCAGCCGCCCATTTGACGTCAATATG	716
QY	361	ACGATATGTTCCCAATATGTAAGCCCAATAGGACCTTTCCATTGACGTCAATGAGGTGAGTAT	420
DB	717	ACGATATGTTCCCAATATGTAAGCCCAATAGGACCTTTCCATTGACGTCAATGAGGTGAGTAT	776
QY	421	TTACGGTAAATCTGCCCATTTGGCGATACATCAAGTATTCATATATGCCAATGCCGCCCT	480
DB	777	TTACGGTAAATCTGCCCATTTGGCGATACATCAAGTATTCATATATGCCAATGCCGCCCT	836
QY	481	ATTGACGTCAATGACGGTAATATGAGCCGCTGGCATTTATGCCCAGTACATGACTTATAGG	540
DB	837	ATTGACGTCAATGACGGTAATATGAGCCGCTGGCATTTATGCCCAGTACATGACTTATAGG	896
QY	541	GACTTTCTTACTTTGGCAGTACATCTACGTATTTAGTCAATCGTATTTACCATGATGATGCGG	600
DB	897	GACTTTCTTACTTTGGCAGTACATCTACGTATTTAGTCAATCGTATTTACCATGATGATGCGG	956
QY	601	TTTTGGCAGTACATCAATATGAGCGGTGATATGAGGGTTTGACTACAGGGGATTTTCAAGTCTC	660
DB	957	TTTTGGCAGTACATCAATATGAGCGGTGATATGAGGGTTTGACTACAGGGGATTTTCAAGTCTC	1016
QY	661	CACCCCATTTGACGTCAATGAGGAGTTGTTTGGGACCAAAATCAACGGGACCTTTCCAAAT	720
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QY	721	TGTCGTAATTAACCCCGCCCGTTGACGCAATATGAGCGGTGAGCGGTATACGATGAGGAGTTC	780
DB	1077	TGTCGTAATTAACCCCGCCCGTTGACGCAATATGAGCGGTGAGCGGTATACGATGAGGAGTTC	1136
QY	781	TATATAGCAGAGCTGTTTATGATGACCGTACAGTCCGCTTGAGACCGCATTCACGCTGT	840
DB	1137	TATATAGCAGAGCTGTTTATGATGACCGTACAGTCCGCTTGAGACCGCATTCACGCTGT	1196
QY	841	TTTGAACCTCCATAGAAACACCGGAGCCGATTCACGCTCCCGCGCGGGGAACGGTGACTT	900
DB	1197	TTTGAACCTCCATAGAAACACCGGAGCCGATTCACGCTCCCGCGCGGGGAACGGTGACTT	1256
QY	901	GGAACGCGGATTTCCCGCGCAAGAGTACGTAAGTACCGGCTATATAGCTTTATAGCGAC	960
DB	1257	GGAACGCGGATTTCCCGCGCAAGAGTACGTAAGTACCGGCTATATAGCTTTATAGCGAC	1316
QY	961	ACCCCTTTGAC-TCTATGATGCTATATCTGTTTTTGGCTTGGGCGCTATACACCCCGC	1019

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FEATURES		Location/Qualifiers
source	1..2361	/organism="Human herpesvirus 5"
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		/db_xref="taxon:10359"
repeat_unit	119..148	
repeat_unit		/rpt_family="inverted repeat"
	183..211	
enhancer		/rpt_family="inverted repeat"
CAAT_signal	534..1081	
TATA_signal	1082..1086	
mRNA	1115..1120	
exon	join(1144..1264,2089..2176,2289..2361)	
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intron	1265..2068	
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exon	2069..2176	
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CDS	join(2106..2176,2289..2361)	
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exon	2289..2361	
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BASE COUNT	571 a 567 c 574 g 649 t	
Query Match	96.5%; Score 1705; DB 3; Length 2361;	
Best Local Similarity	98.8%; Pred. No. 0;	
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DB	335 ATATGAGGCAATATCGCGCATAGAGGCGACATCAAGCTGGCACATGCGCAATGCATATCG	394
OY	61 ATCTAATCATTGAATCAATATTGGCAATTAGCCATATTATTCATTGGTTATATAGCATAA	120
DB	395 ATCTAATCATTGAATCAATATTGGCAATTAGCCATATTAGCCATATTAGCTGGTTATATAGCATAA	454
OY	121 ATCAATATTGGCTATTGGCCATTCGACATACGTTGATCCGATCATTAATATGTAATTTAT	180
DB	455 ATCAATATTGGCTATTGGCCATTCGACATACGTTGATCATTAATATGTAATTTAT	514
OY	181 ATTGGCCCATGTCGAATATGACCGCCCATGTGATGACATTTATATGACTAGTTATTAATAG	240
DB	515 ATTGGCCCATGTCGAATATGACCGCCCATGTGATGACATTTATATGACTAGTTATTAATAG	574
OY	241 TAAATCAATTAAGGGGTCATTAGTTCATAGCCCATATATGAGTTCCGGCTTACATACTT	300
DB	575 TAAATCAATTAAGGGGTCATTAGTTCATAGCCCATATATGAGTTCCGGCTTACATACTT	634
OY	301 ACCGTAATATGGCCCGCTGGCTGACCGGCCAAGACCCCGGCCCATATGAGTCAATATAG	360
DB	635 ACCGTAATATGGCCCGCTGGCTGACCGGCCAAGACCCCGGCCCATATGAGTCAATATAG	693
OY	361 ACGTATGTTCCCATAGTAAAGCCCAATAGAGGACTTTCATTGACGTCATAGTGGTGAATAT	420
DB	694 ACGTATGTTCCCATAGTAAAGCCCAATAGAGGACTTTCATTGACGTCATAGTGGTGAATAT	753
OY	421 TTACGGTAAATCTGGCCACTTGGCGATACATTAAGTATCATATGATCCCAAGTCC-GCCGCC	479
DB	754 TTACGGTAAATCTGGCCACTTGGCGATACATTAAGTATCATATGATCCCAAGTCCGCCGCC	813
OY	480 TATGAGGTCAATAGCGTAAATATGGCCGCTGGCATTTATGCGCAGTACATGACCTTACG	539
DB	814 TATGAGGTCAATAGCGTAAATATGGCCGCTGGCATTTATGCGCAGTACATGACCTTACG	873

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QY 540 GGAATTCTTCTGAGGAGTACATCTACGATTAAGTCATGCGTATTAACATGATGATCG 599
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Db 874 GGAATTCTTCTGAGGAGTACATCTACGATTAAGTCATGCGTATTAACATGATGATCG 593
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QY 780 CTATATTAAGAGAGCTGTTAGTGAACCGTCAGATCGCTGGAGAGAGCCATCCAGCTG 839
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QY 1560 CTTAAGGACAGGAGAGAAAGACGAGGAGCTGAGTTTGTGTTCTGATAAGAGTCA 1619
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Db 1892 CTTAAGGACAGGAGAGAAAGATGACAGGAGCTGAGTTTGTGTTCTGATAAGAGTCA 1951
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QY 1620 GAGGTAACTCCGTTGCGGTGCTTTAAACGCTGAGAGGCGAGTGAATCTGAGCAGTACTC 1679

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QY 1680 GTTGCTGCCGCGCGCCACACAGACATATATAGCTGACAGACTAAGCGACTGTTCCCTTCC 1739
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Db 2012 GTTGCTGCCGCGCGCCACACAGACATATATAGCTGACAGACTAAGCGACTGTTCCCTTCC 2071
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QY 1740 ATGGGTCTTTCTGACAGTCAACCGTCTT 1767
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Db 2072 ATGGGTCTTTCTGACAGTCAACCGTCTT 2099
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Search completed: January 29, 2004, 09:47:58
 Job time : 8 secs

[illegible]

Query Match	Best Local Similarity	Matches	Conservative	Mismatches	Indels	Gaps
1	96.0%;	Score 1695.7;	DB 2;	Length 2133;		
Best Local Similarity	97.8%;	Pred. No. 0;				
Matches 1129;	Conservative	0;	Mismatches	38;	Indels	1;
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357	ATATGAGGCTATATCGCCGATAGAGGCGACATCAAGCGTGCACATGCGCAATGCATATCG	416				
61	ATCTATATATGATGATCAATATTTGGCAATATACCATATATTCATTTGGTATATATGCAATA	120				
417	ATCTATATATGATGATCAATATTTGGCAATATATACCATATATTCATTTGGTATATATGCAATA	476				
121	ATCAATATTTGGCTATTTGGCAATTCGATCATTCGTTATCGGATCATATATATGATATAT	180				
477	ATCAATATTTGGCTATTTGGCAATTCGATCATTCGTTATCGGATCATATATATGATATAT	536				
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537	ATTGGCCCATGTCGCAATATGACCGCCATGTTGACATTTGATTTATTTATTTATATG	596				
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597	TATATCAATTAAGGGGCTATTTAGTTCTATAGCCCATATATATGAGTTCCGGGTTACATTA	656				
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361	ACGATATTTCCCATATGATGACCGCAATAGGAGCTTTTCCATTTAGCGTCAATGCGGTAG	420				
717	ACGATATTTCCCATATGATGACCGCAATAGGAGCTTTTCCATTTAGCGTCAATGCGGTAG	776				
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897	GACTTTCTACTTGGCGAGTACATCATGTATTTAGTCAATGCTATTTACCATGATGATG	956				
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957	TTTTGGCGATGATCATGATGCGCGTGATATGCGGTTTGACTACGCGGATTTCCAAGTCT	1016				
661	CACCCCATGACGTCATGAGGAGTTGTTTGGACCAAAATCAACGGGATCTTCCAAA	720				
1017	CACCCCATGACGTCATGAGGAGTTGTTTGGACCAAAATCAACGGGATCTTCCAAA	1076				
721	TGTCGTAATAACCCCGCCCGTTGACGCAATATGAGCGGTGATGCGGTGAGAGTCT	780				
1077	TGTCGTAATAACCCCGCCCGTTGACGCAATATGAGCGGTGATGCGGTGAGAGTCT	1136				
781	TATATAGACAGAGCTGTTTATGTAACCGTCAGATCGCTGAGAGCGCATCCAGCTGT	840				
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1257	GGAACGCGGATTTCCCGCGCAAGTACGTAAGTACCGGCTTATAGTCTATATAGGAC	1316				
961	ACCCCTTTGAC-TCTTATGACATGCTATCTGTTTTTGGCTTGGGCGTATACACCCCGC	1019				

Quatman

QY 540 GGAATTCTCTACTGGGAGATCATCTACGATTAAGTATGATGCTATTAACATGATGCG 599
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 DB 874 GGAATTCTCTACTGGGAGATCATCTACGATTAAGTATGATGCTATTAACATGATGCG 933
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 DB 994 CCAACCCATTGACGTCATGAGGATGTTGTTTGGCACCMAATCAACGGGACTTTCCAAA 1053
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 DB 1413 TGAACCACTCCCTATATGATGATAGCTTATAGCTTATAGCTTATAGCTTATAGGCT 1472
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 DB |||||
 DB 1533 TGTATTTTACAGGATGGGCTCCCATTTATTAACAATTCACATATCAACAAGCC 1592
 QY 1260 GTCCCGCGTCCGCACTTTTATTAACAATGCGTGGATCTTCACGCGAATCTCGGGT 1319
 DB |||||
 DB 1593 GTCCCGCGTCCGCACTTTTATTAACAATGCGTGGATCTTCACGCGAATCTCGGGT 1652
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 DB 1653 ACGTGTCCGGAATGGGCTCTTCGCGTATGCGGTGGGCTTCACATCCGAGCCCTGG 1712
 QY 1380 TCCCATGCTCCAGCGCATGATGCTGCGGAGCTCTTGCTCCCAACAGTGAAGCC 1439
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 DB 1713 TCCCATGCTCCAGCGCATGATGCTGCGGAGCTCTTGCTCCCAACAGTGAAGCC 1772
 QY 1440 AGACTTAGGACAGCAGATGCCACCAACCAAGTGTGCCGCAACAAGGCGTGGCGGT 1499
 DB |||||
 DB 1773 AGACTTAGGACAGCAGATGCCACCAACCAAGTGTGCCGCAACAAGGCGTGGCGGT 1832
 QY 1500 GGGTATGTGCTGAAAATGAGCTGGAATCGGGCTGCAACCGTGAACGAGATGGAAGA 1559
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 QY 1560 CTTAAGGACAGGAGAGAAGAAGCAGGAGAGCTGAGTTGTGTTCTGATAAGATCA 1619
 DB |||||
 DB 1892 CTTAAGGACAGGAGAGAAGAAGCAGGAGAGCTGAGTTGTGTTCTGATAAGATCA 1951
 QY 1620 GAGTAATCTCCGTTGCGGTGCTTTAAACGATGAGGAGGAGTATGCTGAGCAGTATC 1679

DB ||||| 1952 GAGTAATCTCCGTTGCGGTGCTGTTAAACGATGAGGAGAGTATGATGAGCAGTATC 2011
 QY 1680 GTTGTGCGCGCGCGCGCACAGACATATATAGCTGACAGACTTAACGACTGTTCTTCC 1739
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 Job time : 6 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: January 29, 2004, 23:58:53 ; Search time 660 Seconds
(without alignments)
9757.472 Million cell updates/sec

Title: US-09-886-942-8

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Gapop 10.0, Gapext 1.0

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Total number of hits satisfying chosen parameters: 4869878

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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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5	1728.6	97.8	1767	9	US-09-886-942-5
6	1728.6	97.8	1767	9	US-09-886-942-15
7	1727	97.7	1767	9	US-09-886-942-16
8	1725.4	97.6	1767	9	US-09-886-942-14
9	1720.6	97.4	1767	9	US-09-886-942-13
10	1714.2	97.0	1765	9	US-09-886-942-13
11	1698.8	96.1	1766	9	US-09-886-942-6
12	1695.2	95.9	13254	13	US-10-016-986-156
13	1695.2	95.9	13254	13	US-10-016-986-170
14	1681.6	95.2	1767	9	US-09-886-942-19
15	1669.8	94.5	1757	9	US-09-886-942-17

16	1665	94.2	1757	9	US-09-886-942-11	Sequence 11, Appl
17	1662.2	94.1	1758	9	US-09-886-942-2	Sequence 2, Appl1
18	1620.4	91.7	6845	15	US-10-239-804-6	Sequence 6, Appl1
19	1619	91.6	3893	10	US-09-798-675-3	Sequence 3, Appl1
20	1614.4	91.4	3894	10	US-09-798-675-1	Sequence 1, Appl1
21	1611.4	91.2	1715	9	US-09-886-942-7	Sequence 7, Appl1
22	1606.2	90.9	4867	15	US-10-149-640-16	Sequence 16, Appl
23	1606.2	90.9	4945	15	US-10-149-640-9	Sequence 9, Appl1
24	1603	90.7	1766	9	US-09-886-942-1	Sequence 1, Appl1
25	1601.8	90.7	1715	9	US-09-886-942-10	Sequence 10, Appl1
26	1595.6	90.3	1716	9	US-09-886-942-4	Sequence 4, Appl1
27	1594.2	90.2	5301	15	US-10-096-373-8	Sequence 8, Appl1
28	1594.2	90.2	5316	15	US-10-096-373-11	Sequence 11, Appl1
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32	1582	89.5	3925	13	US-10-336-566-3	Sequence 3, Appl1
33	1582	89.5	10466	13	US-10-336-566-14	Sequence 14, Appl
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36	1581.6	89.5	10447	13	US-10-336-566-11	Sequence 11, Appl
37	1581.6	89.5	10447	13	US-10-336-566-12	Sequence 12, Appl
38	1581.6	89.5	10447	13	US-10-336-566-13	Sequence 13, Appl
39	1579	89.4	4622	10	US-09-846-091-11	Sequence 11, Appl1
40	1579	89.4	5089	13	US-09-993-307-2	Sequence 2, Appl1
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43	1579	89.4	5488	13	US-09-993-307-6	Sequence 6, Appl1
44	1579	89.4	5500	13	US-09-993-307-1	Sequence 1, Appl1
45	1579	89.4	5500	13	US-09-993-307-4	Sequence 4, Appl1

ALIGNMENTS

RESULT 1
US-09-886-942-8
; Sequence 8, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 8
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-8

Query Match 100.0% Score 1767; DB 9; Length 1767;
Best Local Similarity 100.0% Pred. No. 0;
Matches 1767; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY	181	ATTGGCCCATGTCCAAATATGACCGCCATGTTGACATTTGATTAATGACTAGTTATTAATAG	240
Db	181	ATTGGCCCATGTCCAAATATGACCGCCATGTTGACATTTGATTAATGACTAGTTATTAATAG	240
QY	241	TAAATCAATTAACGGGGTCAATAGTTATATAGCCCATATATAGAGTTCGGCGTTATCAATACTT	300
Db	241	TAAATCAATTAACGGGGTCAATAGTTATATAGCCCATATATAGAGTTCGGCGTTATCAATACTT	300
QY	301	ACGGTAATATGGCCCGCGCTGGCTGACCGCCCAACAGACCCCGCCATTAGACGTCAATAATG	360
Db	301	ACGGTAATATGGCCCGCGCTGGCTGACCGCCCAACAGACCCCGCCATTAGACGTCAATAATG	360
QY	361	ACGATATGTTCCCATATAGTAAACGCCAATAGGAGCTTTTCAATGACGTCAATGGGTGAGAT	420
Db	361	ACGATATGTTCCCATATAGTAAACGCCAATAGGAGCTTTTCAATGACGTCAATGGGTGAGAT	420
QY	421	TTACGGTAAATCTGCCCACTTGGCAGTACATCAAGTATCATATATGCCAATCCGCCCTT	480
Db	421	TTACGGTAAATCTGCCCACTTGGCAGTACATCAAGTATCATATATGCCAATCCGCCCTT	480
QY	481	ATTGACGTCAATGACGATTAATGGCCCGCTGGGCAATTATGGCCAGTACATGACCTTACAG	540
Db	481	ATTGACGTCAATGACGATTAATGGCCCGCTGGGCAATTATGGCCAGTACATGACCTTACAG	540
QY	541	GACTTTCCTACTTGGCAGTACATCTACGTAATTAGTCATCCGCTATTACCATGATGATGCGG	600
Db	541	GACTTTCCTACTTGGCAGTACATCTACGTAATTAGTCATCCGCTATTACCATGATGATGCGG	600
QY	601	TTTTGGCAGTACATTAATGGCGGTGGATAGCGGTTTGACTCAACGGGATTTTCCAAGTCTC	660
Db	601	TTTTGGCAGTACATTAATGGCGGTGGATAGCGGTTTGACTCAACGGGATTTTCCAAGTCTC	660
QY	661	CACCCCATTTGACGTCAATGGGAGTTGTTTTGGGACCAAAATCAACGGGACCTTTCCAAA	720
Db	661	CACCCCATTTGACGTCAATGGGAGTTGTTTTGGGACCAAAATCAACGGGACCTTTCCAAA	720
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Db	721	TGTCGTAATTAACCCCGCCCGCTTGAACGAAATAGCGCGTATAGCGGTGAGGAGGTC	780
QY	781	TATATAGCAGAGCTGTTTATGTGAACCGTCAGATCGCCTTGAGAGCGCATTCACGCTGT	840
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QY	841	TTTGAACCTCCATPAGAGACACCGGACCGATTCAGACCTCCCGCGCGGGAACGGTGCATT	900
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QY	901	GGAACGCGGATTTCCCGCTGGCCAGAGTACGTAAATACCGCTATAGACTCTATAGGAC	960
Db	901	GGAACGCGGATTTCCCGCTGGCCAGAGTACGTAAATACCGCTATAGACTCTATAGGAC	960
QY	961	ACCCCTTTGGCTCTTATSCATGCTATACTGTTTTGGTTGGGGCTTATACACCCCGCT	1020
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Db	1021	TCCCTATAGCTATAGGTATAGTATAGCTTAAAGCTATAGCGGTGGGTATATGACATTATTT	1080
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QY	1141	ACAACTATCTCTATTTGGCTATATATGCAATACCTGTCTCTTCAAGACCTGACACGACCTCT	1200
Db	1141	ACAACTATCTCTATTTGGCTATATATGCAATACCTGTCTCTTCAAGACCTGACACGACCTCT	1200
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Db	1201	GTATTTTACAGATGGGGTCCATTATTTATTTACAAATTACATATPACAAACGGCG	1260
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Db	1261	TCCCCCGTGCCCGCAGTTTATTAATAACATACGCTGGGATCTCACGCGAATCTCCGGTA	1320
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Db	1321	CGATTTCCGAGACATGGGCTCTTCCCGGTAGCGGTGGGGCTTCCACATCCGAGCCTGGT	1380
Qy	1381	CCCATGCTTCACGCGACTCATGTGCTCGGACGCTCTTGCTCCCAACAGTGAAGCCA	1440
Db	1381	CCCATGCTTCACGCGACTCATGTGCTCGGACGCTCTTGCTCCCAACAGTGAAGCCA	1440
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RESULT 2
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Sequence 21, Application US/09886942
Patent No. US20020081708a1
GENERAL INFORMATION:
APPLICANT: PUNNONEN, JUHA
WRIGHT, ANNE
SEMYONOV, ANDREY
APPLICANT:
TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
FILE REFERENCE: 02-031910US
CURRENT APPLICATION NUMBER: US/09/886,942
CURRENT FILING DATE: 2001-06-21
PRIORITY FILING DATE: 2000-06-23
PRIORITY FILING DATE: 2000-06-23
NUMBER OF SEQ ID NOS: 40
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 21
LENGTH: 1767
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Consensus
US-09-886-942-21

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Best local Similarity	99.1%	Pred. No. 0		
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QY	121	ATCAATATTTGGCTATTGGCCATTGCATAGCTGTATCCGATCATATAATATGATCATTTAT	180
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QY	241	TAATCAATTAACGGGGTTCATTTAGTTCATAGCCCATATATGAGATTCGCGCTACATAACTT	300
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QY	361	ACGTATGTTCCCATATGATACGCCCATATAGGACCTTTCATATGACGTAAATGGGTGAGATAT	420
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QY	541	GACTTTCCTACTTGGCAGTACATCTACGTAATAGTATGATGCTATTAACATGGTGAATGCG	600
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QY	721	TGTGTAAATAAACCCGCCCGCTTGAACGCAATGGCGGTGAGCGTGTACGATGGGAGGATC	780
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Db	781	TATATTAACCAAGCTCGTTTATGTAACCGTCAGATCGCTGGGACGCCATCCACGCTGT	840
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QY	901	GGAAACGGGGATTTCCCGCTGCGCAAGGTACGTAAGTACCGGCTATATAGCTTTATAGGCAC	960
Db	901	GGAAACGGGGATTTCCCGCTGCGCAAGGTACGTAAGTACCGGCTATATAGGCAC	960
QY	961	ACCCCTTTGGCTTTATGATGCTATATGCTATGTTTGGCTTGGGGGCTATACACCCCGCT	1020
Db	961	ACCCCTTTGGCTTTATGATGCTATATGCTATGTTTGGCTTGGGGGCTATACACCCCGCT	1020
QY	1021	TCCTTAATGCTATAGGTGATGCTATATGCTATGCTATATGCTATATGCTATATGCTATAT	1080
Db	1021	TCCTTAATGCTATAGGTGATGCTATATGCTATGCTATATGCTATATGCTATATGCTATAT	1080
QY	1081	GACACATCCCTAATTTGGTGAAGATCTTCCATTAATCAATCAATCAATCAATCAATCAATCAAT	1140
Db	1081	GACACATCCCTAATTTGGTGAAGATCTTCCATTAATCAATCAATCAATCAATCAATCAATCAAT	1140

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 Db 1141 ACAATCACTCATTTGGGCTAATGCAATCACTCTGCTTCAAGAGCTGACACGGACTC
 QY 1201 GATATTTTACAGGATGGGGTCCCATTTATTTATTTACAAATTCACATATACAAACGCCG
 Db 1201 GATATTTTACAGGATGGGGTCCCATTTATTTATTTACAAATTCACATATACAAACGCCG
 QY 1261 TCCCCCGGCGCGAGTTTATTTATTAACAATAGCGGGATCTCCACGGCAATCTGGGGTA
 Db 1261 TCCCCCGGCGCGAGTTTATTTATTAACAATAGCGGGATCTCCACGGCAATCTGGGGTA
 QY 1321 CGTGTTCGGAACATGGGCTCTTCTCCGGTAGCGGATGGGCTTCCACATCCGACCCTGGT
 Db 1321 CGTGTTCGGAACATGGGCTCTTCTCCGGTAGCGGATGGGCTTCCACATCCGACCCTGGT
 QY 1381 CCACATGCTCCAGGACATCATGTGTGCTCGGAGCTCTCTTGGTCCACAGTGAAGGCCA
 Db 1381 CCACATGCTCCAGGACATCATGTGTGCTCGGAGCTCTCTTGGTCCACAGTGAAGGCCA
 QY 1441 GACTTAGGACAGACAGATGCCCCACCAACAGATGTGCGGACAAAGGCCGGGGTAG
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 Db 1501 GGTATGTGTCTGAAAATAGCTCGGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC
 QY 1561 TTAAGGACGCGGACGAAAGAACGAGGAGCTGAGTGTGTTCTGTATGAAGTCAAG
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 QY 1681 TTGCTGCCCGCGCGGCCACACGACATTAATAGCTGACAGACTPAACGGACTGTCTTTTCA
 Db 1681 TTGCTGCCCGCGCGGCCACACGACATTAATAGCTGACAGACTPAACGGACTGTCTTTTCA
 QY 1741 TGGGTCTTTTCTGCAGTCACCGTCCTT 1767
 Db 1741 TGGGTCTTTTCTGCAGTCACCGTCCTT 1767

RESULT 3
 US-09-996-128A-1
 : Sequence 1, Application US/09996128A
 : Patent No. US20020150589A1
 : GENERAL INFORMATION:
 : APPLICANT: Houghton, Alan
 : APPLICANT: Bergman, Phillip
 : APPLICANT: Wolichok, Jed
 : FILE REFERENCE: MX. P-026-3
 : CURRENT APPLICATION NUMBER: US/09/996,128A
 : CURRENT FILING DATE: 2001-11-27
 : PRIOR APPLICATION NUMBER: US 09/627,694
 : PRIOR FILING DATE: 2000-07-28
 : PRIOR APPLICATION NUMBER: US 09/308,697
 : PRIOR FILING DATE: 1999-05-21
 : PRIOR APPLICATION NUMBER: PCT/US97/22669
 : PRIOR FILING DATE: 1997-12-10
 : PRIOR APPLICATION NUMBER: US 60/036,419
 : PRIOR FILING DATE: 1997-02-18
 : PRIOR APPLICATION NUMBER: US 60/032,535
 : PRIOR FILING DATE: 1996-12-10
 : PRIOR APPLICATION NUMBER: US 60/180,651
 : PRIOR FILING DATE: 2000-01-26
 : NUMBER OF SEQ ID NOS: 2
 : SOFTWARE: PatentIn version 3.0
 : SEQ ID NO 1
 : LENGTH: 6408

no support


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TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc feature
LOCATION: (1)..(7)
OTHER INFORMATION: vector containing human tyrosinase
US-09-996-128A-1

Query Match      98.3%; Score 1737.8; DB 10; Length 6408;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1748; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATATGAGGCTATATCCCGCATAGAGGAGCATACAGCCGCGCATGCGCATCATATG 60
DB 2642 ATATGAGGCTATATCCCGCATAGAGGAGCATACAGCTGCGCATATGCGCATATG 2701
QY 61 ATCTATACATTTGATTAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 120
DB 2702 ATCTATACATTTGATTAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2761
QY 121 ATCAATATTTGGTATTTGGCCATTTGATTTGATTTGATTTGATTTGATTTGAT 180
DB 2762 ATCAATATTTGGTATTTGGCCATTTGATTTGATTTGATTTGATTTGATTTGAT 2821
QY 181 ATTTGGCCATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 240
DB 2822 ATTTGGCCATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 2881
QY 241 TAATCAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 300
DB 2882 TAATCAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 2941
QY 301 AGCGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 360
DB 2942 AGCGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 3001
QY 361 AGCGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 420
DB 3002 AGCGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 3061
QY 421 TTAAGGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 480
DB 3062 TTAAGGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 3121
QY 481 ATTTAGGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 540
DB 3122 ATTTAGGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 3181
QY 541 GACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 600
DB 3182 GACTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3241
QY 601 TTTTGGAGTACATCAATGGGCGTGAATGGCGTTTGAATCGCGGAGTTTCCAAAGTCTC 660
DB 3242 TTTTGGAGTACATCAATGGGCGTGAATGGCGTTTGAATCGCGGAGTTTCCAAAGTCTC 3301
QY 661 CACCCCATTTGACGTCATTTGGAGTTTGTTTGGGACCAAAATCAACGGGACTTTTCCAAA 720
DB 3302 CACCCCATTTGACGTCATTTGGAGTTTGTTTGGGACCAAAATCAACGGGACTTTTCCAAA 3361
QY 721 TGTGTATATACCCCGCGCGCTTGTAGCGCAATGGGCGGTAGGCGTGTATCGGTGGAGGTC 780
DB 3362 TGTGTATATACCCCGCGCGCTTGTAGCGCAATGGGCGGTAGGCGTGTATCGGTGGAGGTC 3421
QY 781 TATATTAAGCAGAGCTCGTTTATGTAACCGTCAGATTCGCTTGAGAGACCGCATCCAGCTGT 840
DB 3422 TATATTAAGCAGAGCTCGTTTATGTAACCGTCAGATTCGCTTGAGAGACCGCATCCAGCTGT 3481
QY 841 TTTTGAATTTGATTAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 900
DB 3482 TTTTGAATTTGATTAATGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 3541
QY 901 GGAAGCGGAGTTCCCGCGCGCAAGAGTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 960
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DB 3542 GGAAGCGGAGTTCCCGCGCGCAAGAGTGAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 3601
QY 961 ACCCTTTGGCTCTTATGACATGCTATCTGTTTGGCTTGGGCGCTTATACACCCGCGCT 1020
DB 3602 ACCCTTTGGCTCTTATGACATGCTATCTGTTTGGCTTGGGCGCTTATACACCCGCGCT 3661
QY 1021 TCCCTATGCTATGAGTGAATGATTAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 1080
DB 3662 TCCCTATGCTATGAGTGAATGATTAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 3721
QY 1081 GACCACTCCCTATTTGAGAGATCTTTCATTAATCAATCAATCAATCAATCAATCAATCAAT 1140
DB 3722 GACCACTCCCTATTTGAGAGATCTTTCATTAATCAATCAATCAATCAATCAATCAATCAAT 3781
QY 1141 ACAACTATCTCTATTTGAGTGAATGAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 1200
DB 3782 ACAACTATCTCTATTTGAGTGAATGAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAAAGTAA 3841
QY 1201 GTATTTTAAAGATGAGGATCCCATTTATTTTAAATTAATTAATTAATTAATTAATTAATTAAT 1260
DB 3842 GTATTTTAAAGATGAGGATCCCATTTATTTTAAATTAATTAATTAATTAATTAATTAATTAAT 3901
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DB 3902 TCCCTGCTGCGGAGTATTTTAAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 3961
QY 1321 CGTGTTCGAGAAATGAGGCTCTTCGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1380
DB 3962 CGTGTTCGAGAAATGAGGCTCTTCGAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 4021
QY 1381 CCCATGCTCTCAAGCATCTATGATGCTGAGGAGTCTTGTCTTCCCAATGAGTGAAGGAGGAG 1440
DB 4022 CCCATGCTCTCAAGCATCTATGATGCTGAGGAGTCTTGTCTTCCCAATGAGTGAAGGAGGAG 4081
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DB 4082 GACTTATGAGCAGCAGATGAGTCCCAATCAATCAATCAATCAATCAATCAATCAATCAATCAAT 4141
QY 1501 GGTATGCTCTCAATTAATGAGTCTGAGGAGTCTGAGGAGTCTGAGGAGTCTGAGGAGTCTGAG 1560
DB 4142 GGTATGCTCTCAATTAATGAGTCTGAGGAGTCTGAGGAGTCTGAGGAGTCTGAGGAGTCTGAG 4201
QY 1561 TTAAGGTAATTTAGGGGCTATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGAT 1620
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QY 1621 AGGTAATCTCCGTTGGGCTGTTTAAAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1680
DB 4262 AGGTAATCTCCGTTGGGCTGTTTAAAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 4321
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DB 4322 TTGCTGCGGCGCGCGCGCAATGATTAAGTGAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 4381
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DB 4382 TGGGCTTTTCTGAGTCAAGCTTC 4406

RESULT 4
US-09-996-128A-2
; Sequence 2, Application US/09996128A
; Patent No. US20020150589A1
; GENERAL INFORMATION:
; APPLICANT: Houghton, Alan
; APPLICANT: Bergman, Phillip
; APPLICANT: Wolchok, Jedid
; TITLE OF INVENTION: Compositions for treatment of Melanoma and Methods of Using Same
; FILE REFERENCE: MSK-P-026-3
; CURRENT APPLICATION NUMBER: US/09/996,128A
; PRIORITY FILING DATE: 2001-11-27
; PRIORITY APPLICATION NUMBER: US 09/627,694
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;; PRIOR FILING DATE: 2000-07-28
;; PRIOR APPLICATION NUMBER: US 09/308,697
;; PRIOR FILING DATE: 1999-05-21
;; PRIOR APPLICATION NUMBER: PCT/US97/22669
;; PRIOR FILING DATE: 1997-12-10
;; PRIOR APPLICATION NUMBER: US 60/036,419
;; PRIOR FILING DATE: 1997-02-18
;; PRIOR APPLICATION NUMBER: US 60/032,535
;; PRIOR FILING DATE: 1996-12-10
;; PRIOR APPLICATION NUMBER: US 60/180,651
;; PRIOR FILING DATE: 2000-01-26
;; NUMBER OF SEQ ID NOS: 2
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO: 2
;; LENGTH: 6485
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; NAME/KEY: misc feature
;; LOCATION: (1)..(1)
;; OTHER INFORMATION: vector containing murine tyrosinase
US-09-996-128A-2

Query Match 98.3%; Score 1737.8; DB 10; Length 6485;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1748; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1 ATATGAGGCTATATGCGCCGATAGAGCGAATGACCGCGGACATGCGCATATG 60
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QY 61 ATCTATACATTTGATCAATATTTGGCAATTAGCAATATTTATTTATTTATAGATA 120
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QY 121 ATCAATATTTGGCTATTTGGCCATTCATAGCTGTATTCGATATATATATGATCATTTAT 180
DB 2762 ATCAATATTTGGCTATTTGGCCATTCATAGCTGTATTCGATATATATATGATCATTTAT 2821
QY 181 ATTTGGCCATTCATATATGACCGGCATGTCATTTGATTTATTTATTTATTTAT 240
DB 2822 ATTTGGCTATTCATATATGACCGGCATGTCATTTGATTTATTTATTTATTTAT 2881
QY 241 TATATCATTTACGGGGCTATAGTTTCAATAGCCCATATATGAGTTCCGCTTACATATCT 300
DB 2882 TATATCATTTACGGGGCTATAGTTTCAATAGCCCATATATGAGTTCCGCTTACATATCT 2941
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DB 2942 ACGGTAAATGCGCGCTGCTGACCGCCCAACGACCGCCCGCCCATTTGACGTCAATATG 3001
QY 361 ACGTATGTTCCCATATGTAAGCCCATATGAGGCTTTCCATTTGACGTCAATGAGTAT 420
DB 3002 ACGTATGTTCCCATATGTAAGCCCATATGAGGCTTTCCATTTGACGTCAATGAGTAT 3061
QY 421 TTACGGTAAATGCGCCCATTTGGAGTATCATGATCATATGCAATGCAAGTCCGCCCT 480
DB 3062 TTACGGTAAATGCGCCCATTTGGAGTATCATGATCATATGCAATGCAAGTCCGCCCT 3121
QY 481 ATTGAGCTCAATGACGGTAAATGCGCGCTGCGCATTTATGCGCATATGACGCTTAA 540
DB 3122 ATTGAGCTCAATGACGGTAAATGCGCGCTGCGCATTTATGCGCATATGACGCTTAA 3181
QY 541 GACTTTCTCTACTTTGGCAGTACATCTACGATTTAGTCACTCGCTTTATTCATGATGAG 600
DB 3182 GACTTTCTCTACTTTGGCAGTACATCTACGATTTAGTCACTCGCTTTATTCATGATGAG 3241
QY 601 TTTTGGCAGTACATGATGCGCGTATAGCGGTTTATGACTCAGGGGATTTCCAGTCTC 660
DB 3242 TTTTGGCAGTACATGATGCGCGTATAGCGGTTTATGACTCAGGGGATTTCCAGTCTC 3301
QY 661 CACCCATTGACGTCAATGAGAGTTTGTTTGGACCAAAATCAACGGGACTTTCCAAA 720
DB CACCCATTGACGTCAATGAGAGTTTGTTTGGACCAAAATCAACGGGACTTTCCAAA 720

DB 3302 CACCCATTGACGTCAATGAGAGTTTGTTTGGACCAAAATCAACGGGACTTTCCAAA 3361
QY 721 TGTCTAATTAACCCCGCCCGTTGACGAAATGCGCGTATGCGTATGAGAGTCTC 780
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DB 3422 TATATTAAGCAGAGCTGTTTATGTAACCGTCAGATGCGCTTGAGAGCGCATTCAGCTGT 3481
QY 841 TTTGACCTCCCAATGAAAGACCGGACCGATCCAGCTCCCGCGCGGAAACGGTGCA 900
DB 3482 TTTGACCTCCCAATGAAAGACCGGACCGATCCAGCTCCCGCGCGGAAACGGTGCA 3541
QY 901 GGAACGCGGATTTCCCGCTGCAAGAGTACGTAAGTACCGCTTATATAGGAC 960
DB 3542 GGAACGCGGATTTCCCGCTGCAAGAGTACGTAAGTACCGCTTATATAGGAC 3601
QY 961 ACCCTTTGGCTTTATGATGCTATATCTGTTTGGCTTGGGCTTATACACCCCGCT 1020
DB 3602 ACCCTTTGGCTTTATGATGCTATATCTGTTTGGCTTGGGCTTATACACCCCGCT 3661
QY 1021 TCTTATGCTATAGTATGATGATAGCTTATAGCTTATAGCGGTATTTATGACATAT 1080
DB 3662 TCTTATGCTATAGTATGATGATAGCTTATAGCTTATAGCGGTATTTATGACATAT 3721
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DB 3722 GACCACTCCCTATTGGTATGATGATGATGATGATGATGATGATGATGATGATGAT 3781
QY 1141 ACAATATCTCTATTGGCTATATGCAATATCTGTCCTTACAGAGCTGACACGAGCTCT 1200
DB 3782 ACAATATCTCTATTGGCTATATGCAATATCTGTCCTTACAGAGCTGACACGAGCTCT 3841
QY 1201 GATTTTATACAGATGAGGCTCCCATTTATTTATTTATTTATTTATTTATTTATTTAT 1260
DB 3842 GATTTTATACAGATGAGGCTCCCATTTATTTATTTATTTATTTATTTATTTATTTAT 3901
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DB 3902 TCCCGCGTCCCGGAGTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 3961
QY 1321 CGTGTTCGCGACATGAGGCTCTTCTCCGATGCGGATGAGGCTTTCAATCCGAGCCCTGCT 1380
DB 3962 CGTGTTCGCGACATGAGGCTCTTCTCCGATGCGGATGAGGCTTTCAATCCGAGCCCTGCT 4021
QY 1381 CCGATGCTCCAGGACCTCATGATGCTGCGGACGCTCCTTGTCTTAACTAGTGAAGCCA 1440
DB 4022 CCGATGCTCCAGGACCTCATGATGCTGCGGACGCTCCTTGTCTTAACTAGTGAAGCCA 4081
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DB 4082 GACTTAAGGACAGCAAGATGCCACCAACAGATGCGGACCAAGGCGGTGGGTATG 4141
QY 1501 GGTATGTGTCTGAAAATGAGTCTGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC 1560
DB 4142 GGTATGTGTCTGAAAATGAGTCTGAGATCGGGCTCGACCGCTGACGAGATGGAAGAC 4201
QY 1561 TTAAGGACGCGGACAGAAAGACGACGAGCTGATGTTGTGTTGATTAAGTCTG 1620
DB 4202 TTAAGGACGCGGACAGAAAGACGACGAGCTGATGTTGTGTTGATTAAGTCTG 4261
QY 1621 AGGTAACTCCGTTGCGGTGCTTAAACGTTGAGGAGGAGTATGTTGATTAAGTCTG 1680
DB 4262 AGGTAACTCCGTTGCGGTGCTTAAACGTTGAGGAGGAGTATGTTGATTAAGTCTG 4321
QY 1681 TTTGTCGCGCGCGGCGCACACATTAATAGCTGACAGACTAAGGAGCTTCTTTCCA 1740
DB 4322 TTTGTCGCGCGCGGCGCACACATTAATAGCTGACAGACTAAGGAGCTTCTTTCCA 4381
QY 1741 TGGGTCTTTTGTGACGTACCGGTCC 1765
DB 4382 TGGGTCTTTTGTGACGTACCGGTCC 4406

RESULT 5
US-09-886-942-5
; Sequence 5: Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 5
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide
US-09-886-942-5

Query Match 97.8%; Score 1728.6; DB 9; Length 1767;

Best Local Similarity 98.6%; Pred. No. 0;
Matches 1743; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

QY 1 ATATGAGCTATATCGCCGATAGAGCGCATCAAGCCGACATGGCCATGATATCG 60
DB 1 ATATGAGCTATATCGCCGATAGAGCGCATCAAGCCGACATGGCCATGATATCG 60
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DB 61 ATCTATACATTTGAATCAATTTGGCAATTAGCCATTTATTTCAATTTGTTATATAGCTAA 120
QY 121 ATCAATTTGGCTATTTGGCATTTGCAATGCTGTATCCGATCAATATATATGATATTTAT 180
DB 121 ATCAATTTGGCTATTTGGCATTTGCAATGCTGTATCCGATCAATATATATGATATTTAT 180
QY 181 ATGGCCCATGTCATATATAGCCGATGTTGACATTTATTTGATTTATATAG 240
DB 181 ATGGCCCATGTCATATATAGCCGATGTTGACATTTATTTGATTTATATAG 240
QY 241 TAATCAATTAACGGGGCTATTAGTTCAATAGCCCATATATATGAGTTCCGCTTACATTA 300
DB 241 TAATCAATTAACGGGGCTATTAGTTCAATAGCCCATATATATGAGTTCCGCTTACATTA 300
QY 301 ACGGTAAATGGCCGCTGCTGACGCGCCCAAGACCCCGCCCATTTGAGTCAATATAG 360
DB 301 ACGGTAAATGGCCGCTGCTGACGCGCCCAAGACCCCGCCCATTTGAGTCAATATAG 360
QY 361 ACGTATTTCCCATAGTATAGCCCATATAGGACCTTTCCATTTGACGTCAATGGTGGAGTAT 420
DB 361 ACGTATTTCCCATAGTATAGCCCATATAGGACCTTTCCATTTGACGTCAATGGTGGAGTAT 420
QY 421 TTAACGTAACCTGCGCATTTGGCAGTATCAATGATGATATATATGCAATGCGCCCT 480
DB 421 TTAACGTAACCTGCGCATTTGGCAGTATCAATGATGATATATATGCAATGCGCCCT 480
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DB 481 ATTGACGTCATAGCGGTAAATGGCCGCTGGATATATGCGCCATATAGACCTTACGG 540
QY 541 GACCTTCTACTTGGCAGTACATCTAGTATTTAGTCAATGCTATTTACATGATGATGATG 600
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QY 601 TTTTGGCAGTATCAATGAGGCGGTGATAGCGGTTTGTACTACGCGGATTTCCAGTCTC 660

DB 601 TTTTGGCAGTATCAATGAGGCGGTGATAGCGGTTTGTACTACGCGGATTTCCAGTCTC 660
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DB 661 CACCCCATGAGCTCAATGGAGTTGTTTGGCACCAAAATCAAGGAGCTTTCCAAA 720
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DB 721 TGTGTATATACCCCGCCGCTTGGACCAATAGCGGTAGCGGTACGTGAGAGTTC 780
QY 781 TATATAGAGAGCTGTTAGTAACTGATGAACTGCGTGAAGAGCCATCCAGCTCT 840
DB 781 TATATAGAGAGCTGTTAGTAACTGATGAACTGCGTGAAGAGCCATCCAGCTCT 840
QY 841 TTTGACCTCATAGAGACACCGGACCATCCAGCTCCGCGCGCGGAGACGCTCAT 900
DB 841 TTTGACCTCATAGAGACACCGGACCATCCAGCTCCGCGCGCGGAGACGCTCAT 900
QY 901 GGAACGCGGATTTCCCGTCCAAAGAGTGAAGTATCCGCTTATAGCTTATAGCAC 960
DB 901 GGAACGCGGATTTCCCGTCCAAAGAGTGAAGTATCCGCTTATAGCTTATAGCAC 960
QY 961 ACCCTTTGGCTTATGATGATCTATCTGTTTGGCTTTGGGCTTATACCCCGCT 1020
DB 961 ACCCTTTGGCTTATGATGATCTATCTGTTTGGCTTTGGGCTTATACCCCGCT 1020
QY 1021 TCCCTATGCTATAGGATGATATAGCTTATAGCTTATAGCTTATAGCTTATAGCTTAT 1080
DB 1021 TCCCTATGCTATAGGATGATATAGCTTATAGCTTATAGCTTATAGCTTATAGCTTAT 1080
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DB 1081 GACCACTCCCTATTTGGTGAAGATATCTTTCATTTCAATTAATCAATATAGCTCT 1140
QY 1141 ACAACATATCTATTTGGCTATATGCAATATCTGCTTCAAGAGCTGACACGAGCTCT 1200
DB 1141 ACAACATATCTATTTGGCTATATGCAATATCTGCTTCAAGAGCTGACACGAGCTCT 1200
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QY 1321 CGTGTCCGAGATAGGCTCTTCTCCGATGAGGCTGCTTCCATATCCGAGCTCTGGT 1380
DB 1321 CGTGTCCGAGATAGGCTCTTCTCCGATGAGGCTGCTTCCATATCCGAGCTCTGGT 1380
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DB 1381 CCCATGCTCCAGAGCTCATGATGCTGCTGAGAGCTCTTCTTCTTCAATGATGAGGCA 1440
QY 1441 GACTTATGACAGCAATAGGCCACCAACCAAGTGTGCGGACAAAGGCGGTGGT 1500
DB 1441 GACTTATGACAGCAATAGGCCACCAACCAAGTGTGCGGACAAAGGCGGTGGT 1500
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DB 1501 GGTATGTGCTGAAAATAGCTTCGAGAGCGGAGCTTCGACCGCTGACGAGATGGAAGC 1560
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QY 1681 TTTGTCGCGCGCGCCACAGACATATAGCTGACAGCTTAAAGGAGCTGTTCTTTCA 1740

Db 1681 TTGCTGCGCGCGCCGACCAAGATATAGCTGACAGACTAGAGACTGTTCTTCCA 1740
Qy 1741 TGGGTCTTTTCTGCACTGACCGTCTT 1767
Db 1741 TGGGTCTTTTCTGCACTGACCGTCTT 1767

RESULT 6

US-09-886-942-15
Sequence 15, Application US/09886942
Patent No. US20020081708A1

GENERAL INFORMATION:

APPLICANT: PUNNONEN, JUHA
WRIGHT, ANNE
SEMYONOV, ANDREY

TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS

FILE REFERENCE: 02-031910US
CURRENT APPLICATION NUMBER: US/09/886, 942

PRIOR FILING DATE: 2001-06-21
PRIORITY APPLICATION NUMBER: 60/213, 829

PRIOR FILING DATE: 2000-06-23
NUMBER OF SEQ ID NOS: 40

SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 15

LENGTH: 1767
TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE: OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: oligonucleotide

US-09-886-942-15

Query Match 97.8%; Score 1728.6; DB 9; Length 1767;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1743; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Qy 1 ATATGAGCTATATCGCCGATAGAGCGCATCAACCGGACATGGCCCATGATATCG 60
Db 1 ATATGAGCTATATCGCCGATAGAGCGCATCAACCGGACATGGCCCATGATATCG 60
Qy 61 ATCTATACATGTGAATCAATATTTGGCAATTAGCCAAATTATTCATTGTTATATAGCATAA 120
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Qy 181 ATGGCCCATGTGCAATATGACCGCCATGTGACATTGATTTGACTGATTTATATATAG 240
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Db 301 ACCGTAATATGCGCGCTGCTGCTGACCGCCCAAGACCGCCCGCCATTGACGTCAATATG 360
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Db 481 ATTGAGCTCATGACGTAATATGCGCGCTGCTGCTGATATATCCCAATGATGACCTTAAG 540

Qy 541 GACTTCTCTACTTGGCAGTACATCTACGATTTATGATATGCTATTTACCATGATGCGG 600
Db 541 GACTTCTCTACTTGGCAGTACATCTGCGATTTATGCTATTTACCATGATGATGCGG 600
Qy 601 TTTTGGAGTATCATGATGCGGCTGATAGCGGTTTGACTCAAGGGGATTTCAAGTCTC 660
Db 601 TTTTGGAGTATCATGATGCGGCTGATAGCGGTTTGACTCAAGGGGATTTCAAGTCTC 660
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Db 661 CACCCATTGACGTCATGCGAGTGTGTTTGGCAACCAAAATCAACGGGACTTTCCAAA 720
Qy 721 TGTGTAATACCCCGCCCGTTGACGCAATGGCGGTGAGCGGTGTACGTGAGAGTTC 780
Db 721 TGTGTAATACCCCGCCCGTTGACGCAATGGCGGTGAGCGGTGTACGTGAGAGTTC 780
Qy 781 TATATAGAGAGCTGTTTATAGAACGCTGATGCGCTGAGAGCGCATTCACGCTGT 840
Db 781 TATATAGAGAGCTGTTTATAGAACGCTGATGCGCTGAGAGCGCATTCACGCTGT 840
Qy 841 TTTGACCTTCATAGAAAGACACCGGACCGATCCAGCTCCGCGCGGGAAAGTGCATT 900
Db 841 TTTGACCTTCATAGAAAGACACCGGACCGATCCAGCTCCGCGCGGGAAAGTGCATT 900
Qy 901 GGAACGCGGATTCCTCGCCAAAGATGACGTAACTACCGCTATAGACTTATAGGCAC 960
Db 901 GGAACGCGGATTCCTCGCCAAAGATGACGTAACTACCGCTATATAGGCAC 960
Qy 961 ACCCTTTGGCTTTATGATGCTATCTGTTTGGCTTGGGGCTATACACCCCGCT 1020
Db 961 ACCCTTTGGCTTTATGATGCTATCTGTTTGGCTTGGGGCTATACACCCCGCT 1020
Qy 1021 TCCCTATGCTATAGGTGATGATAGCTTATAGCTTATAGCGGTATTTGACCAATTAT 1080
Db 1021 TCCCTATGCTATAGGTGATGATAGCTTATAGCTTATAGCGGTATTTGACCAATTAT 1080
Qy 1081 GACCACTCCCTATTTGTGACGATACCTTCCATTAATCATTAACATGATGCTTTGCGC 1140
Db 1081 GACCACTCCCTATTTGTGACGATACCTTCCATTAATCATTAACATGATGCTTTGCGC 1140
Qy 1141 ACAATATCTCTATTTGGCTATATGCAATATCTGCTTTCAGAGACTGACACGACTCT 1200
Db 1141 ACAATATCTCTATTTGGCTATATGCAATATCTGCTTTCAGAGACTGACACGACTCT 1200
Qy 1201 GATTTTTCAGAGATGGGGTCCATTTATTTTCAAAATGACATATCAACAACGCGG 1260
Db 1201 GATTTTTCAGAGATGGGGTCCATTTATTTTCAAAATGACATATCAACAACGCGG 1260
Qy 1261 TCCCCGCTGCGCGAGTTTATTTTAAACATAGCGTGGATCTTCCACGCGAATCTCGGTA 1320
Db 1261 TCCCCGCTGCGCGAGTTTATTTTAAACATAGCGTGGATCTTCCACGCGAATCTCGGTA 1320
Qy 1321 CGTGTTCGGAGATGGGCTCTTCTCCGATGCGGTGGGCTTCCATCTCGAGCCTGGT 1380
Db 1321 CGTGTTCGGAGATGGGCTCTTCTCCGATGCGGTGGGCTTCCATCTCGAGCCTGGT 1380
Qy 1381 CCCAGCTTCGACGATCATAGTGTGCTGCGAGAGCTCTTCCCAAGTGGAGGCCA 1440
Db 1381 CCCAGCTTCGACGATCATAGTGTGCTGCGAGAGCTCTTCCCAAGTGGAGGCCA 1440
Qy 1441 GACTTATGACAGCAGATGCGCACCAACCAAGTGTGCGGACAGAGCGGTGGCGGTAG 1500
Db 1441 GACTTATGACAGCAGATGCGCACCAACCAAGTGTGCGGACAGAGCGGTGGCGGTAG 1500
Qy 1501 GGTATGTGTCTGAAAATGAGCTCGAGATGCGGCTCGCACCGCTGACGAGATGGAAGC 1560
Db 1501 GGTATGTGTCTGAAAATGAGCTCGAGATGCGGCTCGCACCGCTGACGAGATGGAAGC 1560
Qy 1561 TTAAGGCAAGCGGCAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1620
Db 1561 TTAAGGCAAGCGGCAAGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1620
Qy 1621 AGGTAACTCCCGTGGGTGTGTATTAACGCTGAGAGGAGGTAGTCTGAGCAGTACTCG 1680

Db 1621 AGGTAATCCCGTTCGCGTGTGTTAAAGGTGAGGGCAATGTAGTGTGAGCGTACTCG 1680
Qy 1681 TTGTCGCGCGCGCGCCAGACGATATAGCTGACAGACTTAACGACTGTCTTCCCA 1740
Db 1681 TTGTCGCGCGCGCGCCAGACGATATAGCTGACAGACTTAACGACTGTCTTCCCA 1740
Qy 1741 TGGGCTCTTTTCTGCGAGTACCGTCTT 1767
Db 1741 TGGGCTCTTTTCTGCGAGTACCGTCTT 1767

RESULT 7

US-09-886-942-16
; Sequence 16, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMYONOV, ANDREY
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 16
; LENGTH: 1767
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-16

Query Match 97.7%; Score 1727; DB 9; Length 1767;
Best Local Similarity 98.6%; Pred. No. 0;
Matches 1742; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

Qy 1 ATATGAGGCTATATGCGCGATAGAGGGGAGCATCAAGCCGGGACATGGCCAAATGATCG 60
Db 1 ATATGAGGCTATATGCGCGATAGAGGGGAGCATCAAGCCGGGACATGGCCAAATGATCG 60
Qy 61 ATCTATCATTTGATGATCAATATTTGGCATATAGCCATATTTATTCATTTGTTATATAGCTAA 120
Db 61 ATCTATCATTTGATGATCAATATTTGGCATATAGCCATATTTATTCATTTGTTATATAGCTAA 120
Qy 121 ATCAATATTTGGCTATTTGGCCATTGCGATACGTTGATCTATATCATATATATGATACATTTAT 180
Db 121 ATCAATATTTGGCTATTTGGCCATTGCGATACGTTGATCTATATCATATATATGATACATTTAT 180
Qy 181 ATTGGCCCATGTCATATATAGACCGCATGTTGACATTTGATTTATGATTTATATAG 240
Db 181 ATTGGCCCATGTCATATATAGACCGCATGTTGACATTTGATTTATGATTTATATAG 240
Qy 241 TAATCATATTTAGGGGCTATTAGTTCAATAGCCCATATATGAGAGTTCCCGCTTAATACATTT 300
Db 241 TAATCATATTTAGGGGCTATTAGTTCAATAGCCCATATATGAGAGTTCCCGCTTAATACATTT 300
Qy 301 ACCGTAATAGGCGCGCTGCGTACGCGCCAAAGAGCCCGCCCATTTGAGAGTCAATATAG 360
Db 301 ACCGTAATAGGCGCGCTGCGTACGCGCCAAAGAGCCCGCCCATTTGAGAGTCAATATAG 360
Qy 361 ACCTATGTTCCATAGTATAGCGCAATAGGAGCTTTCCATTTGAGTCAATGAGTAT 420
Db 361 ACCTATGTTCCATAGTATAGCGCAATAGGAGCTTTCCATTTGAGTCAATGAGTAT 420
Qy 421 TTACGTAATAGCGCGCTGCGTACGCGCAATAGTATGATTTATGATTTATGATTTATGATTTAT 480
Db 421 TTACGTAATAGCGCGCTGCGTACGCGCAATAGTATGATTTATGATTTATGATTTATGATTTAT 480

Qy 481 ATTGACGTATATGACCGTAATATGCGCGCGCTGCGCATTTATGCCAGTATGACTTTACG 540
Db 481 ATTGACGTATATGACCGTAATATGCGCGCGCTGCGCATTTATGCCAGTATGACTTTACG 540
Qy 541 GACTTTCTTCACTTTGGAGTATCATCTAGTATATAGTATATGCTATTTTCAATGATGCGG 600
Db 541 GACTTTCTTCACTTTGGAGTATCATCTAGTATATAGTATATGCTATTTTCAATGATGCGG 600
Qy 601 TTTTGGCAGTATCATCAATAGGCGGTATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 660
Db 601 TTTTGGCAGTATCATCAATAGGCGGTATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 660
Qy 661 CACCCATTGACGTCAATGGAAGTTTGTGTCACCAAAATCAAGGGAATTTCCAA 720
Db 661 CACCCATTGACGTCAATGGAAGTTTGTGTCACCAAAATCAAGGGAATTTCCAA 720
Qy 721 TGTCTGTAATATACCCCGCGCTTGAAGCAAAATGCGGTATAGCGGTATGAGTATGAGTAT 780
Db 721 TGTCTGTAATATACCCCGCGCTTGAAGCAAAATGCGGTATAGCGGTATGAGTATGAGTAT 780
Qy 781 TATATAGGAGAGCTGTTAGTAAACGTCAGATGCGCTGAGAGAGCCATCCAGCTCT 840
Db 781 TATATAGGAGAGCTGTTAGTAAACGTCAGATGCGCTGAGAGAGCCATCCAGCTCT 840
Qy 841 TTTGACCTTCATAGAGAGACACCGGAGCCGATCCAGCTCCGCGCGCGGAAAGTGTGAT 900
Db 841 TTTGACCTTCATAGAGAGACACCGGAGCCGATCCAGCTCCGCGCGCGGAAAGTGTGAT 900
Qy 901 GGAACCGGATTTCCCGCTGCGCAAGAGTGAATATAGTACCTATAGCTATATAGGCAAC 960
Db 901 GGAACCGGATTTCCCGCTGCGCAAGAGTGAATATAGTACCTATAGCTATATAGGCAAC 960
Qy 961 ACCCCTTGGCTTATAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Db 961 ACCCCTTGGCTTATAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
Qy 1021 TCCCTATGCTATATAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
Db 1021 TCCCTATGCTATATAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
Qy 1081 GACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
Db 1081 GACCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
Qy 1141 ACAACTATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Db 1141 ACAACTATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
Qy 1201 GTATTTTACAGGATGAGGCTCCCATTTATTTTCAAAATTCATATATCAATATCAAAAGCGCG 1260
Db 1201 GTATTTTACAGGATGAGGCTCCCATTTATTTTCAAAATTCATATATCAATATCAAAAGCGCG 1260
Qy 1261 TCCCGCGTCCCGCAATGTTTATATTAACATPACGTTGAGTCTCCAGCAAACTCGGGTA 1320
Db 1261 TCCCGCGTCCCGCAATGTTTATATTAACATPACGTTGAGTCTCCAGCAAACTCGGGTA 1320
Qy 1321 CGTGTCCGGAATAGGCTCTTCTCCGTAAGGAGTGGGGCTTCCATCCGAGCCCTGGT 1380
Db 1321 CGTGTCCGGAATAGGCTCTTCTCCGTAAGGAGTGGGGCTTCCATCCGAGCCCTGGT 1380
Qy 1381 CCCATGCTTCAGAGCACTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
Db 1381 CCCATGCTTCAGAGCACTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1440
Qy 1441 GACTTATGAGAGAGCAAGATGCGCACCAACAGATGTCGCGACAAAGCGCTGGGCGGTAT 1500
Db 1441 GACTTATGAGAGAGCAAGATGCGCACCAACAGATGTCGCGACAAAGCGCTGGGCGGTAT 1500
Qy 1501 GGTATGTTGTTGAAAAATGAGTCTCGAGATCGGGCTCGACCGCTGACGAGATGAGAGAC 1560
Db 1501 GGTATGTTGTTGAAAAATGAGTCTCGAGATTTGGGCTCGACCGCTGACGAGATGAGAGAC 1560

QY	1561	TTAAGGACGGCGGCAAGAAGAACCCAGCAGACTGATGTGTTCTGCATAAAGTCTAG	1562
Db		TTAAGGACGGCGGCGCAAGAAGAAAGATGAGGCACTGAATTGTTATTCGATAAGTGTCAG	1562
QY	1561	TTTAAGGACGAGCGGCAAGAAGAAAGATGAGGCACTGAATTGTTATTCGATAAGTGTCAG	1562
Db		TTTAAGGACGAGCGGCGGCAAGAAGAAAGATGAGGCACTGAATTGTTATTCGATAAGTGTCAG	1562
QY	1621	AGGTAACTCCCGTGTGGCGGTGCTGTTTAA CGGTGAGGCGGCGAGTAGTCTGACAGTACTCG	1680
Db	1621	AGGTAACTCCCGTGTGGCGGTGCTGTTTAA CGGTGAGGCGGCGAGTAGTCTGACAGTACTCG	1680
QY	1681	TTGCTGCCGCGCGCGGCCACA CAGACATTAATAGCTGACAGACTAACGAGCTGTTCTTTCCA	1740
Db	1681	TTGCTGCCGCGCGCGGCCACA CAGACATTAATAGCTGACAGACTAACGAGCTGTTCTTTCCA	1740
QY	1741	TGGGTCTTTTCTGTCAGTACCGTCTTT 1767	
Db	1741	TGGGTCTTTTCTGTCAGTACCGTCTTT 1767	
 RESULT 8 US-09-886-942-14			
; Sequence 14, Application US/09886942			
; Patent No. US20020081708A1			
; GENERAL INFORMATION:			
; APPLICANT: PUNNONEN, JUHA			
; WRIGHT, ANNE			
; SEMONOV, ANDREY			
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS			
; FILE REFERENCE: 02-031910US			
; CURRENT APPLICATION NUMBER: US/09/886,942			
; CURRENT FILING DATE: 2001-06-21			
; PRIOR APPLICATION NUMBER: 60/213,829			
; PRIOR FILING DATE: 2000-06-23			
; NUMBER OF SEQ ID NOS: 40			
; SOFTWARE: PatentIn Ver. 2.1			
; SEO ID NO 14			
; LENGTH: 1767			
; TYPE: DNA			
; ORGANISM: Artificial Sequence			
; FEATURE:			
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic			
; OTHER INFORMATION: oligonucleotide			
US-09-886-942-14			
 Query Match 97.6%; Score 1725.4; DB 9; Length 1767; Best Local Similarity 98.5%; Pred. No. 0; Matches 1741; Conservative 0; Mismatches 26; Indels 0; Gaps 0;			
QY	1	ATAAGAGGCTATATCCCGCATAGAGGCGACATCAAAGCCGGCACATGGCCATGCTATACG	60
Db	1	ATAAGAGGCTATATCCCGCATAGAGGCGACATCAAAGCCGGCACATGGCCATGCTATACG	60
QY	61	ATCATATCATGTGAATCAATATTTGGCAATTAGCCATATATTCATTTGTTATATAGCATTA	120
Db	61	ATCATATCATGTGAATCAATATTTGGCAATTAGCCATATATTCATTTGTTATATAGCATTA	120
QY	121	ATCAATAATTTGGCTATTTGGCCATTGGCATACGTTGATACGTAATCAATAAATGTATAT	180
Db	121	ATCAATAATTTGGCTATTTGGCCATTGGCATACGTTGATACGTAATCAATAAATGTATAT	180
QY	181	ATTGGCCCATGTCCATATATGACCGCCGATGTCACATTGATATTTAGCTAGTTATTAATNG	240
Db	181	ATTGGCCCATGTCCATATATGACCGCCGATGTCACATTGATATTTAGCTAGTTATTAATNG	240
QY	241	TAAATCAATTAAGGGGTCATTAGTTCAATAGCCCATATATATGAGATTCCGGCTTACATTA	300
Db	241	TAAATCAATTAAGGGGTCATTAGTTCAATAGCCCATATATATGAGATTCCGGCTTACATTA	300
QY	301	ACGGTAAATGCGCGGCTGTGCTGACCGGCCAAAGCAAGCCCCCGCCATTGACGTCAATATG	360
Db	301	ACGGTAAATGCGCGGCTGTGCTGACCGGCCAAAGCAAGCCCCCGCCATTGACGTCAATATG	360
QY	361	ACGATATGTTCCATATGTAAGCCCAATAGGACCTTTCATATGACGTCAATGGGTGAGAT	420
Db		ACGATATGTTCCATATGTAAGCCCAATAGGACCTTTCATATGACGTCAATGGGTGAGAT	420

Db	361	ACGNATGTTCCCAATGAAAGCCAAATGAGGACTTTCATTGACGTCAATGAGTGAATAT	420
QY	421	TTACGGTAAATCTGCCACTTTGGCAGTACATCAAGTGTATATATGCCAAGTCCGCCCTT	480
Db	421	TTACGGTAAATCTGCCACTTTGGCAGTACATCAAGTGTATATATGCCAAGTCCGCCCTT	480
QY	481	ATTGACGTCAATAGCGGTAAATGGCCCGCTGGCATTATGCCAGTACATGACCTTAACGG	540
Db	481	ATTGACGTCAATAGCGGTAAATGGCCCGCTGGCATTATGCCAGTACATGACCTTAACGG	540
QY	541	GACTTTCCTACTTGGCAGTACATCTCACTGTATAGTATCGCTATTTACATGATGATCGG	600
Db	541	GACTTTCCTACTTGGCAGTACATCTCACTGTATAGTATCGCTATTTACATGATGATCGG	600
QY	601	TTTTGGCAGTACATCAATGGGCGGTGATAGCGGTTGACTCACGGGATTTCCAAAGTCTC	660
Db	601	TTTTAGCAGTACACCAATGGCGGTGATAGCGGTTGACTCACGGGATTTCCAAAGTCTC	660
QY	661	CACCCCAATTGACGTCAATGGGAGTTTGTTTGGCACCAAATCAACGGGACTTTCCAAA	720
Db	661	CACCCCAATTGACGTCAATGGGAGTTTGTTTGGCACCAAATCAACGGGACTTTCCAAA	720
QY	721	TGTCGTAAATACCCCGCCCGCTTGAACGCAATAGGCGGTGACGCTGTACGCTGGGAGTCT	780
Db	721	TGTCGTAAATACCCCGCCCGCTTGAACGCAATAGGCGGTGACGCTGTACGCTGGGAGTCT	780
QY	781	TATATAAGCAGACTCGTTTATGTAAACGTCAGATGCTGTGAGACGCGCATCCACGCTGT	840
Db	781	TATATAAGCAGACTCGTTTATGTAAACGTCAGATGCTGTGAGACGCGCATCCACGCTGT	840
QY	841	TTTGAACCTCCATAGAAAGACACCGGGACCATCCAGCTCCGCGCGCGGGAAACGGTGATT	900
Db	841	TTTGAACCTCCATAGAAAGACACCGGGACCATCCAGCTCCATAGCGGGAAACGGTGATT	900
QY	901	GGAAGCGGAAATCCCGCTGCCAAGAGTACGTAAAGTACCGCTATATAGACTCTAATAGGCAC	960
Db	901	GGAAGCGGAAATCCCGCTGCCAAGAGTACGTAAAGTACCGCTATATAGACTCTAATAGGCAC	960
QY	961	ACCCCTTTGGCTCTTATGATGCTATACCTGTCTTTGGCTTTGGGGCTTATACACCCCGCT	1020
Db	961	ACCCCTTTGGCTCTTATGATGCTATACCTGTCTTTGGCTTTGGGGCTTATACACCCCGCT	1020
QY	1021	TCTCTAATGCTATAGGTGATAGGTATAGCTTATAGGCTTATAGGCGTGTATTTGACCATTAAT	1080
Db	1021	TCTCTAATGCTATAGGTGATAGGTATAGCTTATAGGCTTATAGGCGTGTATTTGACCATTAAT	1080
QY	1081	GACACATCCCTTATGGTGAAGATACCTTCCATTACTACATCAATCAATGATGCTTTGGC	1140
Db	1081	GACACATCCCTTATGGTGAAGATACCTTCCATTACTACATCAATCAATGATGCTTTGGC	1140
QY	1141	ACAACATCTCTATATGGCTATATGCGCAATACCTGTCTTCAGAGACTGACACGCACTCT	1200
Db	1141	ACAACATCTCTATATGGCTATATGCGCAATACCTGTCTTCAGAGACTGACACGCACTCT	1200
QY	1201	GTATTTTACAGATGGGGTCCCAATTTATTTACAAATTACATATTAACAACAAGCCG	1260
Db	1201	GTATTTTACAGATGGGGTCCCAATTTATTTACAAATTACATATTAACAACAAGCCG	1260
QY	1261	TCCCCCGTGGCCGAGTTTATTAACAATAGGTGGGATCTCCAGCGCAATCTCGGGTA	1320
Db	1261	TCCCCCGTGGCCGAGTTTATTAACAATAGGTGGGATCTCCAGCGCAATCTCGGGTA	1320
QY	1321	CGTGTTCGGAACATGGGCTCTTCTCGGGTAGGGGCGGAGCTTCAACATCCGAGCCCTGCT	1380
Db	1321	CGTGTTCGGAACATGGGCTCTTCTCGGGTAGGGGCGGAGCTTCAACATCCGAGCCCTGCT	1380
QY	1381	CCCATGCTCTCAGGCGGTCAATGCTGTGCGCAGCTCTTGTCTCTTAAACATGTAAGGCCA	1440
Db	1381	CCCATGCTCTCAGGCGGTCAATGCTGTGCGCAGCTCTTGTCTCTTAAACATGTAAGGCCA	1440
QY	1441	GACTTATGGACAGACAGATGCCACACACACACAGATGTCGCGACAAAGCCGTGGCGGTAG	1500
Db	1441	GACTTATGGACAGACAGATGCCACACACACACAGATGTCGCGACAAAGCCGTGGCGGTAG	1500

OY	1501	GGTATGTTCTCGAAAAATAGAGCTCGGAGATCCGAGCTCGACACCGCTGACGCAATG3AAAGAC	1560
Db	1501	GGTATGTTCTCGAAAAATAGAGCTCGGAGATTGGGCTTCGACACCGCTGACGCAATG3AAAGAC	1560
OY	1561	TTTAAAGCAGCGGCGCAGAAAGACGCGACGCTGATGTTGTGTTCTGATTAAGATCAG	1620
Db	1561	TTTAAAGCAGCGGCGCAGAAAGATGACGACACTGATGTTGTGTTCTGATTAAGATCAG	1620
OY	1621	AGGTAACTCCCGTTGCGGTGCTGTTAAAGGATGGAGGGCAGTGTGTCTGACACAGACTCG	1680
Db	1621	AGGTAACTCCCGTTGCGGTGCTGTTAAAGGATGGAGGGCAGTGTACTCTGACACATACTCG	1680
OY	1681	TTTGCTGCCGCGCGCGCCACCAACAATAAATAGCTGACAGACTTAACGGACTGTTCTTTCCA	1740
Db	1681	TTTGCTGCCGCGCGCGCCACCAACAATAAATACTGACAGACTTAACAGACTGTTCTTTCCA	1740
OY	1741	TGGGCTCTTTTTCGACAGTCAACCGTCTTT	1767
Db	1741	TGGGCTCTTTTTCGACAGTCAACCGTCTTT	1767

Db	301	ACGGTAATATGCGCTCGCTGGCTGACCGCCCAACGACCCCCGCGCATTCAGCTCAATATG	360
Qy	361	ACGTAATTTCCCATAGTAAGTACCCAAATAGGACCTTTCAATGACGTCAATGGGTGAGAT	420
Db	361	ACGATATGTTCCCATAGTAAGCCCAATAGGGCTTTCAATGACGTCAATGGGTGAGAT	420
Qy	421	TTACGGTAAACTGCGCACTTGCGAGTACATCAATGTATCATATGCAAGTCGCGCCCT	480
Db	421	TTACGGTAAACTGCGCACTTGCGAGTACATCAATGTATCATATGCAAGTACCGCCCT	480
Qy	481	ATTACGTCGAATGACGGTAATGCGCGCGCTGGCATATGCGCCAGTACATGACCTTACGG	540
Db	481	ATTACGTCGAATGACGGTAATGCGCGCGCTGGCATATGCGCCAGTACATGACCTTACGG	540
Qy	541	GACTTTCTCATTGGCGAGTACATCTACGTAATTAGTCATCGGTATTACCATGATGATCGG	600
Db	541	GACTTTCTCATTGGCGAGTACATCTACGTAATTAGTCATCGGTATTACCATGATGATCGG	600
Qy	601	TTTTTGGAGTACATCAATGAGCGCGGATACCGGTTTATCTACGCGGATTTTCCAAAGTCTC	660

US-09-886-942-18
 US-09-886-942-18
 Sequence 18, Application US/09866942
 Patent No. US20020081708A1
 GENERAL INFORMATION:
 APPLICANT: PUNNONEN, JUHA
 WRIGHT, ANNE
 SEMONOV, ANDREY
 APPLICANT:
 TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
 FILE REFERENCE: 02-031910US
 CURRENT APPLICATION NUMBER: US/09/886,942
 CURRENT FILING DATE: 2001-06-21
 PRIOR APPLICATION NUMBER: 60/213,829
 PRIOR FILING DATE: 2000-06-23
 NUMBER OF SEQ ID NOS: 40
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 18
 LENGTH: 1767
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: oligonucleotide
 US-09-886-942-18

Oy	661	CACCCGATTTGCGTCATGGGAGTTTGTGTTGGCAACCAAAATCAACGGACTTTCAAAA	720
Db	661	CACCCATTGACGTCAATGGGAGTTTGTGTTGGCAACCAAAATCAACGGACTTTCAAAA	720
Oy	721	TGTCGTATTAACCCCGCCCGTTTGACGCAATGGGCGGTAGCCGTGTAACGTTGGGAGTTC	780
Db	721	TGTCGTATTAACCCCGCCCGTTTGACGCAATGGGCGGTAGCCGTGTAACGTTGGGAGTTC	780
Oy	781	TATATTAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCTTGAGAGACGCGCATCCACGCTGT	840
Db	781	TATATTAAGCAGAGCTCGTTTAGTGAACCGTCAGATCGCTTGAGAGACGCGCATCCACGCTGT	840
Oy	841	TTTGACTCTCATTAAGAACAACGGGACCGATCCAGCTCCGCGGCCGGGGAACGGTGCATT	900
Db	841	TTTGACTCTCATTAAGAACAACGGGACCGATCCAGCTCCATTAACCCGGGGACGGTGCATT	900
Oy	901	GGAAACGGGGATTCGCCCGTCGAAGAGTAGTAAGTACCGGCTTAGACTTTAAGGCAC	960
Db	901	GGAAACGGGGATTCGCCCGTCGAAGAGTAGTAAGTACCGGCTTAGACTTTAAGGCAC	960
Oy	961	ACCCCTTTGGCTCTTATGATGATGATATCTGTTTGGCTTTGGGGCTATACACCCCGCT	1020
Db	961	ACCCCTTTGGCTCTTATGATGATGATATCTGTTTGGCTTTGGGGCTATACACCCCGCT	1020

Query Match	97.4%	Score 1120.6	DB 9	Length 1767
Best Local Similarity	98.4%	Pred. Nc. 0	Mismatches 29	Indels 0
Matches 1738	Conservative	0	Indels	Gaps 0
Qy	1	ATATGAGGCTATATGCGCATAGAGGACACATCAAGCCGGACATAGGCGCAATGCATATCG	60	
Db	1	ATATGAGGCTATATGCGCATATAGGCGACATCAAGCTGGGACATAGGCGCAATGCATATCG	60	
Qy	61	ATCTATACATTGAAATCAATATTGGCAATTAGCCATATTATTCATTGGTTATATAGCATPA	120	
Db	61	ATCTATACATTGAAATCAATATTGGCAATTAGCCATATTATTCATTGGTTATATAGCATPA	120	
Qy	121	ATCAATATTTGGCTATTGGCCATTTGATACGTTGTATCCGATACATAATATGTACATTAT	180	
Db	121	ATCAATATTTGGCTATTGGCCATTTGATACGTTGTATCTATATCAATAATATGTACATTAT	180	
Qy	181	ATTGGGCCATGTCCCAATATGACCGGCATGTTGACATTAATTAATTGACTAGTTATTAATAG	240	
Db	181	ATTGGCTCATGTCCCAATATGACCGGCATGTTGACATTAATTAATTGACTAGTTATTAATAG	240	
Qy	241	TAATCAATTAGCGGGCTATTAGTTCATAGCCCATATATGAGTTCCGGTTACATAACTT	300	
Db	241	TAATCAATTAGCGGGCTATTAGTTCATAGCCCATATATGAGTTCCGGTTACATAACTT	300	
Qy	301	ACGGTAATATGCGCCCTGGCTGACCGGCCAAGACCCCGCCCATTTGACATCAATAATG	360	

Db	1021	TCCTTAGCTATAGTATAGTATAGCTTAGCCATATAGGTGTGGTTATTGACATTATT	1080
Qy	1081	GACCACCTCCCCATATGGTGAACGATACCTTTCCATTACTAATTCATATAATGGCTCTTTGGC	1140
Db	1081	GACCACCTCCCTATTGGTGAACGATACCTTTCCATTACTAATTCATATAATGGCTCTTTGGC	1140
Qy	1141	ACAACTATCTCTATGGCTATATGGCAAATCTCTGTCTCTCAGAGACTGACAGGACTCT	1200
Db	1141	ACAACTATCTCTATGGCTATATGGCAAATCTCTGTCTCTCAGAGACTGACAGGACTCT	1200
Qy	1201	GTATTTTACAGATGGGGTCCCATTTATATTATTAACAATTCACATATPACAAACGCCG	1260
Db	1201	GTATTTTACAGATGGGGTCCCATTTATATTATTAACAATTCACATATPACAAACGCCG	1260
Qy	1261	TCCCCGCTGCCGAGTTTATTAATAACATAGCTGGGATCTCCACGCGAATCTCGGATA	1320
Db	1261	TCCCCAATGCCCGAGTTTATTAATAACATAGCTGGGATCTCCACGCGAATCTCGGATA	1320
Qy	1321	CGTGTTCGGAACATGGGCTCTTCTCCGGTAGCGGTGGGCTTCCACATCCGAGCCTTGCT	1380
Db	1321	CGTGTTCGGAACATGGGCTCTTCTCCGGTAGCGGCTTCCACATCCGAGCCTTGCT	1380
Qy	1381	CCCATGGCTTCAGAGACTCATGGTTCGCTCGGCACTCTTGTCTCCCAACAGTGGAGGCCA	1440


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Db      1319 CGGTTCGACAGAGGGCTCTTCCCGTAGCCGAGCTTCCACATCCGAGCCCTGTG 1378
Qy      1381 CCATGCGCTCCAGGACCTCATAGTGGCTGGGAGCTCTTGTCTCCCAAGTGGAGGCA 1440
Db      1379 CCATGCGCTCCAGGAGCTCATAGTGGCTGGGAGCTCTTGTCTCCCAAGTGGAGGCA 1438
Qy      1441 GACTTAGGACAGACGATGCCCAACCAACAGTGTGCCGACAGAGCCGTGGCGGTAG 1500
Db      1439 GACTTAGGAGGACAGACATGCCCAACCAACAGTGTGCCGACAGAGCCGTGGCGGTAG 1498
Qy      1501 GGTATGTGTGAAATGAGCTGGAGATGGGCTGCCACCGCTGAGAGGAGATGAGAGAC 1560
Db      1499 GGTATGTGTGAAATGAGCTGGAGATGGGCTGCCACCGCTGAGAGGAGATGAGAGAC 1558
Qy      1561 TTAAGGAGGAGGAGAGAGAGACGAGAGCTAGTTGTGTGTCTGTAAGAGTCAAG 1620
Db      1559 TTAAGGAGGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1618
Qy      1621 AGGTAACTCCCGTGGCGGTCTGTAAAGGTGAGGAGGAGAGAGAGAGAGAGAGAGAG 1680
Db      1619 AGGTAACTCCCGTGGCGGTCTGTAAAGGTGAGGAGGAGAGAGAGAGAGAGAGAGAG 1678
Qy      1681 TTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1740
Db      1679 TTGCTGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1738
Qy      1741 TGGGCTCTTTCTGAGTCAACGCTCTT 1767
Db      1739 TGGGCTCTTTCTGAGTCAACGCTCTT 1765

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RESULT 11

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US-09-886-942-6
; Sequence 6, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA
; WRIGHT, ANNE
; SEMONOV, ANDREY
; APPLICANT:
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; CURRENT FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; PRIOR FILING DATE: 2000-06-23
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 6
; LENGTH: 1766
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-6

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Query Match      96.1%; Score 1698.8; DB 9; Length 1766;
Best Local Similarity 98.3%; Pred. No. 0;
Matches 178; Conservative 0; Mismatches 27; Indels 3; Gaps 2;

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Qy      181 ATTGGCCATGTCCAAATATAGCCGAGTGTGACATTTATTTGACTAGTTAATAG 240
Db      181 ATTGGCTATGTCCAAATATAGCCGAGTGTGACATTTATTTGACTAGTTAATAG 240
Qy      241 TATCAATTAAGGGGCTATTAATGCTATAGCCATATATAGAGTCCGCTTACATACCT 300
Db      241 TATCAATTAAGGGGCTATTAATGCTATAGCCATATATAGAGTCCGCTTACATACCT 300
Qy      301 ACGTAAATGAGCCGCTGAGTGAACGCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Db      301 ACGTAAATGAGCCGCTGAGTGAACGCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Qy      361 ACGTATGTTCCCATAGTAAGCCCATAGGAGCTTTCATTTAGCTCATAGGCTGAGTAT 420
Db      361 ACGTATGTTCCCATAGTAAGCCCATAGGAGCTTTCATTTAGCTCATAGGCTGAGTAT 420
Qy      421 TTAAGGTAATGAGCCGCTGAGTGAACGCCAAGAGAGAGAGAGAGAGAGAGAGAGAG 479
Db      421 TTAAGGTAATGAGCCGCTGAGTGAACGCCAAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Qy      480 TATGAGCTCAATGAGAGGTAATAGGCGGCTGAGTATAGCCAGTATGACATGACTTACG 539
Db      481 TATGAGCTCAATGAGAGGTAATAGGCGGCTGAGTATAGCCAGTATGACATGACTTACG 540
Qy      540 GGACTTTCCTACTTGGCAGTACATCTAGTATTTAGTATGCTATTTACATGAGTATGAG 599
Db      541 GGACTTTCCTACTTGGCAGTACATCTAGTATTTAGTATGCTATTTACATGAGTATGAG 600
Qy      600 GTTTTGGCAGTACATCTAGTATGAGGCGTGTGATAGGCGTTTGACTACAGGGGATTTTCAAGTCT 659
Db      601 GTTTTGGCAGTACATCTAGTATGAGGCGTGTGATAGGCGTTTGACTACAGGGGATTTTCAAGTCT 660
Qy      660 CCACCCCATTTGACGTCATAGGAGTGTGTTTGGACCAAAATCAAGGAGCTTTCCAAA 719
Db      661 CCACCCCATTTGACGTCATAGGAGTGTGTTTGGACCAAAATCAAGGAGCTTTCCAAA 720
Qy      720 ATGTGTAATTAACCCGCGCCGCTTGAACGCAATAGGCGGTGAGCGGTGAGGAGGT 779
Db      721 ATGTGTAATTAACCCGCGCCGCTTGAACGCAATAGGCGGTGAGCGGTGAGGAGGT 780
Qy      780 CTATATAGCAGAGCTCGTTTATGTAACCGTATAGCTGTGAGAGAGAGAGAGAGAGAG 839
Db      781 CTATATAGCAGAGCTCGTTTATGTAACCGTATAGCTGTGAGAGAGAGAGAGAGAGAG 840
Qy      840 TTTTGACTCCCATAGAGAGACCGGAGACCGATCCAGCTCCGCGGCGGAGAGCGGTGAT 899
Db      841 TTTTGACTCCCATAGAGAGACCGGAGACCGATCCAGCTCCGCGGCGGAGAGCGGTGAT 900
Qy      900 TGGAGCGGAGATTCGCCGTGCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 959
Db      901 TGGAGCGGAGATTCGCCGTGCAAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 960
Qy      960 CACCCCTTTGGCTTATAGTATGCTATGCTTTTGGCTTGGGCTTATTAACCCCGCG 1019
Db      961 CACCCCTTTGGCTTATAGTATGCTATGCTTTTGGCTTGGGCTTATTAACCCCGCG 1020
Qy      1020 TTGCTTATGCTATAGGAGTATAGTATAGCTTATAGGCTTATAGGCTTATAGGCTTAT 1079
Db      1021 TTGCTTATGCTATAGGAGTATAGTATAGCTTATAGGCTTATAGGCTTATAGGCTTAT 1080
Qy      1080 TGACCACTCCCTATTTGGTGAAGATCTTTCATTAATCAATCAATCAATCAATCAATCA 1139
Db      1081 TGACCACTCCCTATTTGGTGAAGATCTTTCATTAATCAATCAATCAATCAATCAATCA 1140
Qy      1140 CACAACTATCTTATTTGGCTATATGCAATCTCTGCTTATAGAGCTGACAGAGAGCTC 1199
Db      1141 CACAACTATCTTATTTGGCTATATGCAATCTCTGCTTATAGAGCTGACAGAGAGCTC 1200
Qy      1200 TGTATTTTGAAGAGATGGGCTCCATTTATTTAATTTAATTTAATTTAATTTAATTTAAT 1259
Db      1201 TGTATTTTGAAGAGATGGGCTCCATTTATTTAATTTAATTTAATTTAATTTAATTTAAT 1260

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QY 1260 GTCCCGCCGCGCCGAGTTTATTATAATAGCGTGGATCTCCACGCGAATCTCGGCT 1319
DB 1261 GTCCCGAGCGCCGAGTTTATTATAATAGCGTGGATCTCCACGCGAATCTCGGCT 1320
QY 1320 AGGTGTCGAGCATGGGCTCTTCGCGGTAGCGGGCTTCCACATCCGAGCCCTGG 1379
DB 1321 AGGTGTCGAGCATGGGCTCTTCGCGGTAGCGGGCTTCCACATCCGAGCCCTGG 1380
QY 1380 TCCCATGCTCCAGCGGCTCATGTGTGCTCGGAGCTCTCGTCTCTAAGTGGAGGCT 1439
DB 1381 TCCCATGCTCCAGCGGCTCATGTGTGCTCGGAGCTCTCGTCTCTAAGTGGAGGCT 1440
QY 1440 AGACTTGAAGCAGCAGATGCCACACCAACAGTGTGCCGCAAGGCGCTGGGTA 1499
DB 1441 AGACTTGAAGCAGCAGATGCCACACCAACAGTGTGCCGCAAGGCGCTGGGTA 1500
QY 1500 GGGTATGTCTGAATAATAGCTCGGAGATCGGGCTCGGACCGCTGAACGCAATGGA 1559
DB 1501 GGGTATGTCTGAATAATAGCTCGGAG--TGGGCTTGACCGCTGAACGCAATGGA 1558
QY 1560 CTTAAGCAGCGGAGAAAGACGAGGAGCTGTTGTGTGTTGATTAAGAGTCA 1619
DB 1559 CTTAAGCAGCGGAGAAAGATGAGGAGCTGTTGTGTGTTGATTAAGAGTCA 1618
QY 1620 GAGTAACTCCGCTGCGGTGCTTTAACGTTGAGGAGGAGTGTAGTGAAGTACTC 1679
DB 1619 GAGTAACTCCGCTGCGGTGCTTTAACGTTGAGGAGGAGTGTAGTGAAGTACTC 1678
QY 1680 GTTGTGCGCGCGCGGCGGACGAGCATATAGTGAACATTAAGGAGTCTTCTTCC 1739
DB 1679 GTTGTGCGCGCGCGGCGGACGAGCATATAGTGAACATTAAGGAGTCTTCTTCC 1738
QY 1740 ATGGGTCTTTCTGCAAGTCAACGCTCTT 1767
DB 1739 ATGGGTCTTTCTGCAAGTCAACGCTCTT 1766

RESULT 12
US-10-016-986-156

; Sequence 156, Application US/10016986
; Publication No. US20030187247A1
; GENERAL INFORMATION:
; APPLICANT: Burton, Dennis R
; APPLICANT: Bardas, Carlos F
; APPLICANT: Lerner, Richard A
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; FILE REFERENCE: 313.2CON1
; CURRENT APPLICATION NUMBER: US/10/016,986
; CURRENT FILING DATE: 2001-12-12
; PRIOR APPLICATION NUMBER: US 09/149,898
; PRIOR FILING DATE: 1998-09-08
; PRIOR APPLICATION NUMBER: US 08/899,575
; PRIOR FILING DATE: 1997-07-24
; PRIOR APPLICATION NUMBER: US 08/276,852
; PRIOR FILING DATE: 1994-07-18
; PRIOR APPLICATION NUMBER: US 08/178,302
; PRIOR FILING DATE: 1994-01-06
; PRIOR APPLICATION NUMBER: PCT/US93/09328
; PRIOR FILING DATE: 1993-09-30
; PRIOR APPLICATION NUMBER: US 07/954,148
; PRIOR FILING DATE: 1993-09-30
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 156
; LENGTH: 13254
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthesized
US-10-016-986-156

Query Match 95.9%; Score 1695.2; DB 13; Length 13254;

Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;
QY 1 ATATAGGCTATATATGCGGATAGAGGAGCATCAAGCGGACATGCGCAATGATATG 60
DB 608 ATATAGGCTATATGCGGATAGAGGAGCATCAAGCGGACATGCGCAATGATATG 667
QY 61 ATCTATACATTTGAATCAATATTTGGCAATTAGCCATATATTTGTTATATAGCAT 120
DB 668 ATCTATACATTTGAATCAATATTTGGCAATTAGCCATATATTTGTTATATAGCAT 727
QY 121 ATCAATATTTGGCTATTTGGCCATTTGATACCTTTGATCCGATCATTAATATGAT 180
DB 728 ATCAATATTTGGCTATTTGGCCATTTGATACCTTTGATCCGATCATTAATATGAT 787
QY 181 ATTTGCCATTTGCCAATATGACCGGATTTGATGATGATTTGATGATTTATATG 240
DB 788 ATTTGCCATTTGCCAATATGACCGGATTTGATGATGATTTGATGATTTATATG 847
QY 241 TAATCAATTTACGGGCTCATTTAGTATAGCCCATATATGAGTTCCGCTTACATATCT 300
DB 848 TAATCAATTTACGGGCTCATTTAGTATAGCCCATATATGAGTTCCGCTTACATATCT 907
QY 301 ACGTAAATGCGCGCGCTGCTGACCGGCCAAGACCCCGCCATTGACGTCAATATG 360
DB 908 ACGTAAATGCGCGCGCTGCTGACCGGCCAAGACCCCGCCATTGACGTCAATATG 967
QY 361 ACGTAAATGCGCGCGCTGCTGACCGGCCAAGACCCCGCCATTGACGTCAATATG 420
DB 968 ACGTAAATGCGCGCGCTGCTGACCGGCCAAGACCCCGCCATTGACGTCAATATG 1027
QY 421 TTACGCTAACTGCCACCTTGCGAGTACATCAAGTATCATATATGCAAGTCCGCCCT 480
DB 1028 TTACGCTAACTGCCACCTTGCGAGTACATCAAGTATCATATATGCAAGTCCGCCCT 1087
QY 481 ATTGACGTCAATGACGCTAATGAGCGCGCGCTGCGCATTTATGCCAGTACATGACT 540
DB 1088 ATTGACGTCAATGACGCTAATGAGCGCGCGCTGCGCATTTATGCCAGTACATGACT 1147
QY 541 GACTTCTCTACTTGGCAGTACATCAAGTATGATGATGATGATGATGATGATGATG 600
DB 1148 GACTTCTCTACTTGGCAGTACATCAAGTATGATGATGATGATGATGATGATGATG 1207
QY 601 TTTTGGCAGTACATCAATGAGCGGCTGATAGCGGTTGACTCAAGGAGATTTCAAGTCTC 660
DB 1208 TTTTGGCAGTACATCAATGAGCGGCTGATAGCGGTTGACTCAAGGAGATTTCAAGTCTC 1267
QY 661 CACCCCATTTGACGTCAATGAGGAGTTGTTTGGCAACAAATCAACGGGACTTTCCAAA 720
DB 1268 CACCCCATTTGACGTCAATGAGGAGTTGTTTGGCAACAAATCAACGGGACTTTCCAAA 1327
QY 721 TGTCTTAATACCCCGCCCGCTTGAACGAAATGGGCGGTGATGATGATGATGATG 780
DB 1328 TGTCTTAATACCCCGCCCGCTTGAACGAAATGGGCGGTGATGATGATGATGATGATG 1387
QY 781 TATATAGAGAGCTGTTTATGTAACCGTGCATGCGCTGAGAGCGGATCCAGCTGT 840
DB 1388 TATATAGAGAGCTGTTTATGTAACCGTGCATGCGCTGAGAGCGGATCCAGCTGT 1447
QY 841 TTTGACCTTCATTAAGAGACACCGGAGCCGATCCGCTCGGCGCGGAGCGGTGAT 900
DB 1448 TTTGACCTTCATTAAGAGACACCGGAGCCGATCCGCTCGGCGCGGAGCGGTGAT 1507
QY 901 GGAACGGGATTCGCCCGGCGCAAGAGTACGTAAGTACCGCTATATAGACTCTATAGGCA 960
DB 1508 GGAACGGGATTCGCCCGGCGCAAGAGTACGTAAGTACCGCTATATAGGCA 1567
QY 961 ACCCGTTGGC-TCTTATGATGATATCTGTTTGGCTTGGGCTATATACACCCCGC 1019
DB 1568 ACCCGTTGGC-TCTTATGATGATATCTGTTTGGCTTGGGCTATATACACCCCGC 1627
QY 1020 TTCCTTATGCTATAGGATGATAGCTTATAGCTTATAGGCGTGGGTTATGACATAT 1079


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Db      840 TTGACCTCCATAGAGACACCGGAGCGATCCAGCTCCGCGCGGAGACGGTGCAAT 899
Qy      901 GGAACGGGATTCCTCCGTCAGAGTACGTAAATACCGCTATAGACTCTATAGCAC 960
Db      900 GGAACGGGATTCCTCCGTCAGAGTACGTAAATACCGCTATAGACTCTATAGCAC 959
Qy      961 ACCCTTGGC-TCTTATGATGCTATATAGTCTTTTGGCTTGGGGCTATACACCCCGC 1019
Db      960 ACCCTTGGCTTTTATGATGCTATATAGTCTTTTGGCTTGGGGCTATACACCCCGC 1019
Qy      1020 TTCTTATGCTATAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 1079
Db      1020 TTCTTATGCTATAGTATGATGATGATGATGATGATGATGATGATGATGATGAT 1079
Qy      1080 TGACCACTCCCTATATGATGATGATGATGATGATGATGATGATGATGATGATG 1139
Db      1080 TGACCACTCCCTATATGATGATGATGATGATGATGATGATGATGATGATGATG 1139
Qy      1140 CACAACATCTCTATGCTATATGATGATGATGATGATGATGATGATGATGATGATG 1199
Db      1140 CACAACATCTCTATGCTATATGATGATGATGATGATGATGATGATGATGATGATG 1199
Qy      1200 TGTATTTTACAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1259
Db      1200 TGTATTTTACAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1259
Qy      1260 GTCCCGCGTCCGCGAGCTTTTATTAACATAGCTGAGATCTCCAGCAATCTCGGGT 1319
Db      1260 GTCCCGCGTCCGCGAGCTTTTATTAACATAGCTGAGATCTCCAGCAATCTCGGGT 1319
Qy      1320 ACGGTTCGCGAGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1379
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Qy      1440 AGACTTATGAGCAGCAGATGATGATGATGATGATGATGATGATGATGATGATG 1499
Db      1440 AGACTTATGAGCAGCAGATGATGATGATGATGATGATGATGATGATGATGATG 1499
Qy      1500 GGGATATGCTGTAAGATGATGATGATGATGATGATGATGATGATGATGATG 1559
Db      1500 GGGATATGCTGTAAGATGATGATGATGATGATGATGATGATGATGATGATG 1559
Qy      1560 CTTAAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 1619
Db      1560 CTTAAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 1619
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Db      1620 GAGGTATCTCCGTTGCGGTGCTGTTAAAGGTGAGGCGAGTGTATGATGAGATCTC 1679
Qy      1680 GTTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1739
Db      1680 GTTGCTGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 1739
Qy      1740 ATGGGTCTTTTCTGCACTACCGTCTT 1767
Db      1740 ATGGGTCTTTTCTGCACTACCGTCTT 1767

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RESULT 15
; Sequence 17, Application US/09886942
; Patent No. US20020081708A1
; GENERAL INFORMATION:
; APPLICANT: PUNNONEN, JUHA

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; WRIGHT, ANNE
; SEMONOV, ANDREY
; TITLE OF INVENTION: NOVEL CHIMERIC PROMOTERS
; FILE REFERENCE: 02-031910US
; CURRENT APPLICATION NUMBER: US/09/886,942
; PRIOR FILING DATE: 2001-06-21
; PRIOR APPLICATION NUMBER: 60/213,829
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 17
; LENGTH: 1757
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-886-942-17

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Query Match      94.5%; Score 1669.8; DB 9; Length 1757;
Best Local Similarity 97.1%; Pred. No. 0;
Matches 1715; Conservative 0; Mismatches 42; Indels 10; Gaps 1;

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Db      1 ATATGAGCTATATGCGCATATGAGCGCATATAGCCGCGCATGCGCATATGCG 60
Qy      61 ATCTATACATATGATATATATGAGCATATGAGCATATATGATGATATATATAT 120
Db      61 ATCTATACATATGATATATATGAGCATATGAGCATATATGATGATATATATAT 120
Qy      121 ATCAATATGAGCTATATGAGCATATGAGCATATATGATGATATATATATAT 180
Db      121 ATCAATATGAGCTATATGAGCATATGAGCATATATGATGATATATATATAT 180
Qy      181 ATTTGCGCATATGATATGAGCGCATATGATGATATATATGATATATATG 240
Db      181 ATTTGCGCATATGATATGAGCGCATATGATGATATATATGATATATATG 240
Qy      241 TATATATATGAGGCGCATATGATATGATATGATATGATATGATATGATATG 300
Db      241 TATATATATGAGGCGCATATGATATGATATGATATGATATGATATGATATG 300
Qy      301 ACGTAAATGAGCGCGCTGATGAGCGCGCATATGAGCGCGCATATGAGCGCAT 360
Db      301 ACGTAAATGAGCGCGCTGATGAGCGCGCATATGAGCGCGCATATGAGCGCAT 360
Qy      361 ACGTATGCTCCATATGATATGAGCGCATATGAGCGCATATGAGCGCATATG 420
Db      361 ACGTATGCTCCATATGATATGAGCGCATATGAGCGCATATGAGCGCATATG 420
Qy      421 TTAAGGTATATGCGCATATGAGCGCATATGAGCGCATATGAGCGCATATG 480
Db      421 TTAAGGTATATGCGCATATGAGCGCATATGAGCGCATATGAGCGCATATG 480
Qy      481 ATTTAGCATATGAGCGCATATGAGCGCGCTGATATGAGCGCGCATATGAGCG 540
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Qy      541 GACTTTCTATGAGCATATGAGCGCGCTGATATGAGCGCGCATATGAGCGCG 600
Db      541 GACTTTCTATGAGCATATGAGCGCGCTGATATGAGCGCGCATATGAGCGCG 600
Qy      601 TTTTGGCATATATGAGCGCGCTGATATGAGCGCGCATATGAGCGCGCATAT 660
Db      601 TTTTGGCATATATGAGCGCGCTGATATGAGCGCGCATATGAGCGCGCATAT 660
Qy      661 CACCCATGAGTCAATGAGGAGTTTGTGAGCAATATGAGGAGGATTTCCAA 720
Db      661 CACCCATGAGTCAATGAGGAGTTTGTGAGCAATATGAGGAGGATTTCCAA 720
Qy      721 TGTGTATATACCCCGCGCGCTTGAAGCAATGAGGCGGATGAGCGTGTAGCGT 780

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Job time : 665 secs

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Db 781 TATATAAGCAGAGCTCGTTAGTAAACCGTCAGATCGCTGAGAGACGCCATCCACGCTGT 840
Qy 841 TTTGACCTCCATAGAGACACCGGGACCGATCCAGCCTCCGCGCGCGGGAAACGGTGCATT 900
Db 831 GAGGAGACACCATAGAGATACCGGGACCGATCCAGCCTCCGCGCGCGGGAAACGGTGCATT 890
Qy 901 GGAACGGGGATTTCCCGTGGCAAGAGTGAAGTATACCGCCTATAGACTCTATAGGCAC 960
Db 891 GGAACGGGGATTTCCCGTGGCAAGAGTGAAGTATACCGCCTATAGACTCTATAGGCAC 950
Qy 961 ACCCCTTTGGCTCTTATGCAATGCTATCTGTTTTGGCTTGCGGCGCTATACACCCCGCT 1020
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Qy 1021 TCCTTATGCTATAGTGTAGTGTATAGCTTATAGCCTATAGCGGTGTTATTTGACATTATT 1080
Db 1011 TCCTTATGCTATAGTGTATAGTGTATAGCTTATAGCCTATAGCGGTGTTATTTGACATTATT 1070
Qy 1081 GACCACTCCCTTATGCTGTGAGTACTTTCATTTACTTAATCCATPACATGGCTTTGCC 1140
Db 1071 GACCACTCCCTTATGCTGTGAGTACTTTCATTTACTTAATCCATPACATGGCTTTGCC 1130
Qy 1141 ACAACTATCTCTATGCTATATGCTATATGCCAATCTGCTTCAGAGACTGACAGGACTCT 1200
Db 1131 ACAACTATCTCTATGCTATATGCTATATGCCAATCTGCTTCAGAGACTGACAGGACTCT 1190
Qy 1201 GTATTTTACAGATGGGGTCCCATTTATTTATTTACAAATTCATATACATACAGCGCG 1260
Db 1191 GTATTTTACAGATGGGGTCCCATTTATTTATTTACAAATTCATATACATACAGCGCG 1250
Qy 1261 TCCCGCGTCCCGCAGTGTATTTATTAACATAGCGGTGATCTCCAGCGGATCTCGGTA 1320
Db 1251 TCCCGCGTCCCGCAGTGTATTTATTAACATAGCGGTGATCTCCAGCGGATCTCGGTA 1310
Qy 1321 CGGTTCGGGACATGGGCTCTTCGCGGTAGCGGTGGGCTTCACATCCGAGCCCTGGT 1380
Db 1311 CGGTTCGGGACATGGGCTCTTCGCGGTAGCGGTGGGCTTCACATCCGAGCCCTGGT 1370
Qy 1381 CCCATGCTCCAGGACTCATGTGCTCGGCACTCTTGCTCCAAAGTGGAGGCCA 1440
Db 1371 CCCATGCTCCAGGACTCATGTGCTCGGCACTCTTGCTCCAAAGTGGAGGCCA 1430
Qy 1441 GACTTAGGCAAGCAGATGCCACCAACCAAGTGTGCGGCAAGAGCCGTGGCGGTAG 1500
Db 1431 GACTTAGGCAAGCAGATGCCACCAACCAAGTGTGCGGCAAGAGCCGTGGCGGTAG 1490
Qy 1501 GGTATGTGTCTGAAAATGAGTCTGGAGATGGGCTCCGACCGCTGAGCAGATGGAAGAC 1560
Db 1491 GGTATGTGTCTGAAAATGAGTCTGGAGATGGGCTCCGACCGCTGAGCAGATGGAAGAC 1550
Qy 1561 TTAAGCAGCGGCGAGAGAGAGCAGGACGCTGATGTTGTGTTCTGATTAAGAGTCA 1620
Db 1551 TTAAGCAGCGGCGAGAGAGAGTCAAGGACGCTGATGTTGTGTTCTGATTAAGAGTCA 1610
Qy 1621 AGGTAACTCCCGTTCGCGTGTCTGTTAAAGTGAAGGCAAGTGTAGCTGAGCACTCG 1680
Db 1611 AGGTAACTCCCGTTCGCGTGTCTGTTAAAGTGAAGGCAAGTGTAGCTGAGCACTCG 1670
Qy 1681 TTGCTGCGCGCGCGGCGCACAGATATATAGCTGACAGACTTAAGGACTGTCTTTCCA 1740
Db 1671 TTGCTGCGCGCGCGGCGCACAGATATATAGCTGACAGACTTAAGGACTGTCTTTCCA 1730
Qy 1741 TGGGCTTTTCTGCACTCACCGTCTT 1767
Db 1731 TGGGCTTTTCTGCACTCACCGTCTT 1757
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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: January 29, 2004, 22:37:18 ; Search time 130 Seconds
(without alignments)
5999.415 Million cell updates/sec

Title: US-09-886-942-8

Perfect score: 1767
Sequence: 1 atatgagctatcgcgcga.....ttctcgcagtcacgctcctt 1767

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

Issued Patents: NA:
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2: /cgn2_6/prodata/2/ina/5B_COMB.seq:*
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1695.2	95.9	13254	1	US-08-276-852-156
2	1695.2	95.9	13254	1	US-08-276-852-170
3	1695.2	95.9	13254	1	US-08-899-575-156
4	1695.2	95.9	13254	1	US-08-899-575-170
5	1695.2	95.9	13254	1	US-08-899-575-156
6	1695.2	95.9	13254	1	US-08-899-575-170
7	1695.2	95.9	13254	5	PCT-US95-08743-156
8	1695.2	95.9	13254	5	PCT-US95-08743-170
9	1620.6	91.7	4326	3	US-08-760-615-7
10	1590.6	90.0	15538	4	US-09-554-337-1
11	1581	89.5	4928	1	US-08-345-913-1
12	1581	89.5	4928	3	US-08-818-562-1
13	1581	89.5	4928	4	US-09-628-445-1
14	1574.8	89.1	3547	4	US-09-340-798A-43
15	1572.8	89.0	4864	4	US-09-340-798A-1
16	1570.8	88.9	5899	4	US-09-173-053-2
17	1560.8	88.3	5662	2	US-08-663-998-3
18	1560.8	88.3	5662	2	US-08-663-998-4
19	1560.8	88.3	5845	4	US-09-173-053-1
20	1560.8	88.3	5900	2	US-08-663-998-1
21	1560.8	88.3	5952	2	US-08-663-998-2
22	1556.2	88.1	4915	4	US-09-173-053-7
23	1553	87.9	5215	4	US-09-173-053-8
24	1548.2	87.6	9600	3	US-08-910-647-1
25	1548.2	87.6	9600	4	US-09-620-925-1
26	1547.8	87.6	4328	3	US-09-132-808-1
27	1547.8	87.6	4328	3	US-08-910-647-2

28	1547.8	87.6	4328	4	US-09-620-925-2	Sequence 2, Appl1
29	1547.8	87.6	4328	4	US-09-620-260-1	Sequence 1, Appl1
30	1547.8	87.6	4328	4	US-09-620-259-1	Sequence 1, Appl1
31	1547.8	87.6	4818	3	US-08-910-647-4	Sequence 4, Appl1
32	1547.8	87.6	4818	4	US-09-620-925-4	Sequence 4, Appl1
33	1547.8	87.6	5107	3	US-08-910-647-3	Sequence 3, Appl1
34	1547.8	87.6	5107	4	US-09-620-925-3	Sequence 3, Appl1
35	1547.8	87.6	7015	4	US-09-770-315-1	Sequence 1, Appl1
36	1480.2	83.8	7731	4	US-09-301-593-29	Sequence 29, Appl1
37	1480.2	83.8	7731	4	US-09-301-593-42	Sequence 42, Appl1
38	1480.2	83.8	8068	4	US-09-301-593-27	Sequence 27, Appl1
39	1480.2	83.8	8068	4	US-09-301-593-35	Sequence 35, Appl1
40	1393	78.8	3125	2	US-08-037-816A-13	Sequence 13, Appl1
41	1393	78.8	3125	2	US-08-530-146-13	Sequence 13, Appl1
42	1275.4	72.2	5053	4	US-09-311-784A-35	Sequence 35, Appl1
43	897.2	50.8	930	1	US-08-029-022-2	Sequence 2, Appl1
44	897.2	50.8	930	1	US-08-029-022-4	Sequence 4, Appl1
45	897.2	50.8	930	1	US-08-246-376-2	Sequence 2, Appl1

ALIGNMENTS

RESULT 1
US-08-276-852-156
Sequence 156, Application US/08276852
Patent No. 5652138
GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbab, Carlos F
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
ADDRESSEE: Patent Counsel
STREET: 10666 N. 5652138th Torrey Pines Road, Suite 220,
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/276, 852
FILING DATE: 18-JUL-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET INFORMATION: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-276-852-156

Query Match	95.9%	Score 1695.2;	DB 1;	Length 13254;
Best Local Similarity	97.8%;	Pred. No. 0;		
Matches 1729; Conservative	0;	Mismatches 38;	Indels 1;	Gaps 1;

QY	1	ATATAGGCTATATGCGGATGAGGCAATCAAGCCGGGCAATGCAATGCTATTCG	60
Db	608	ATATAGGCTATATGCGGATGAGGCAATCAAGCTGAGCAATGGCCATGCTATTCG	667
QY	61	ATCTATACATTGAATCAATATTGGCAATTAGCCATATTAATTCGTGGTTATATAGCATPA	120
Db	668	ATCTATACATTGAATCAATATTGGCCATTAGCCATATTAATTCATGGTTATATAGCATPA	727
QY	121	ATCAATATGGGTATGGCCANTGATACGTGTATCCGTATCAATAATATAGCACTTAT	180
Db	728	ATCAATATGGGTATGGCCANTGATACGTGTATCCGTATCAATAATATAGCACTTAT	787
QY	181	ATTGGCCCATGTCCAAATATGACCCGCATGTTGACATATTAATGACTATTAATAG	240
Db	788	ATTGGCTCATGTCCAAATATACCGGCATGTTGACATATTAATTAATGACTATTAATAG	847
QY	241	TAAATCAATTACGGGGCTATTAAGTTCAATAGCCCATATATATAGAGTTCCGGCTTACATPACTT	300
Db	848	TAAATCAATTACGGGGCTATTAAGTTCAATAGCCCATATATATAGAGTTCCGGCTTACATPACTT	907
QY	301	AACGTAATATGGCCGCTGGGCTGACCGGCCAACGACCCCGCCCATATACGCTAATATAG	360
Db	908	AACGTAATATGGCCGCTGGGCTGACCGGCCAACGACCCCGCCCATATACGCTAATATAG	967
QY	361	ACGATATGTTCCCATATGATACGCAATAGAGGACTTTCCATTGACGTCAATAGGGTGGAGTAT	420
Db	968	ACGATATGTTCCCATATGATACGCAATAGAGGACTTTCCATTGACGTCAATAGGGTGGAGTAT	1027
QY	421	TTACGCTAACTGCCCACTTGGCAGTACATCAAGTATCATATGCTCCAAATGCCCGCCCT	480
Db	1028	TTACGCTAACTGCCCACTTGGCAGTACATCAAGTATCATATGCTCCAAATGCCCGCCCT	1087
QY	481	ATTGACGCTAATGACGCTAAATAGCCCGCTGGCAATTATAGCCAGTACATGACCTTACGG	540
Db	1088	ATTGACGCTAATGACGCTAAATAGCCCGCTGGCAATTATAGCCAGTACATGACCTTATAG	1147
QY	541	GACTTTCCTACTTGGCAGTACATCTACGTATTAATGTCATTCGCTATTAATCCATGGTATGCGG	600
Db	1148	GACTTTCCTACTTGGCAGTACATCTACGTATTAATGTCATTCGCTATTAATCCATGGTATGCGG	1207
QY	601	TTTTGGCAGTACATCAATAGGGCGTGGATATAGCGTTGACTACAGGGGATTTCCAAAGTTC	660
Db	1208	TTTTGGCAGTACATCAATAGGGCGTGGATATAGCGGTGACTACAGGGGATTTTCCAAAGTTC	1267
QY	661	CACCCCATATGACGTCAATGGAGGTTGTTTGGCACAACAAATCAACGGGACCTTCCAAAT	720
Db	1268	CACCCCATATGACGTCAATGGAGGTTGTTTGGCACAACAAATCAACGGGACCTTCCAAAT	1327
QY	721	TGTCGTAAATACCCCGCCCGTTGACGCAATAGGGCGGTAGGCGGTATCGGTGGGAGGTC	780
Db	1328	TGTCGTAAATACCCCGCCCGTTGACGCAATAGGGCGGTAGGCGGTATCGGTGGGAGGTC	1387
QY	781	TATATATACAGACGTCTGTTAGTGAACCGTACAGATCGCTGAGACCGCATATCCAGCTGT	840
Db	1388	TATATATACAGACGTCTGTTAGTGAACCGTACAGATCGCTGAGACCGCATATCCAGCTGT	1447
QY	841	TTTGAACCTCCATAGAGACACCGGACCGATTCACGCTTCGCGGGCCGGGAAACGGTGCATT	900
Db	1448	TTTGAACCTCCATAGAGACACCGGACCGATTCACGCTTCGCGGGCCGGGAAACGGTGCATT	1507
QY	901	GGAACGCGGATTTCCCGTGGCAAGATGACGTAAGTACCGCTATATAGCTTATATAGGAC	960
Db	1508	GGAACGCGGATTTCCCGTGGCAAGATGACGTAAGTACCGCTATATAGGCTTATATAGGACC	1567
QY	961	ACCCCTTTGGGCTCTTATGACATGCTATGTTTGGCTTGGGGCTATATACCCCGCG	1019
Db	1568	ACCCCTTTGGGCTCTTATGACATGCTATGTTTGGCTTGGGGCTATATACCCCGCG	1627

OY	1020	TTCCATTGCGATATGGGATGAGTATAGCTATAGCCCTAATAGGGGTGGATTATGACATAT	10739
Db	1628	TTCTCTATGTTATATGGTGAATGGTATAGCTTATAGCTTATAGGTGGTTATTTGACATATAT	16872
OY	1080	TGACCACTCCCTTATTTGGTATGATACGATTACTTTCATTAATCATATCAATGACTCTTTTGC	11339
Db	1688	TGACCACTCCCTTATTTGGTATGATACGATTACTTTCATTAATCATATCAATGACTCTTTTGC	17478
OY	1140	CACAACTATCTATTTTGGCTATATGCGCAATATCTGTTCCTTCAAGACTGACAGGACTC	11399
Db	1748	CACAACTCTTTTATTTGGCTATATGCGCAATATCACTGTTCCTTCAAGACTGACAGGACTC	18077
OY	1200	TGATATTTTACAGGATGGGGTCCCATTTATTTATTTACAAATTCATATACAAACAGCC	12539
Db	1808	TGATATTTTACAGGATGGGGTCTCATTTATTTATTTACAAATTCATATACAAACAGCC	18672
OY	1260	GTCCCCCGTGCCGACATTTTATTTAACAATATGCGTGGGATCTTCACGCGAATCTCGGGT	13139
Db	1868	GTCCCCAGTGCCGACATTTTATTTAACAATATGCGTGGGATCTTCACGCGAATCTCGGGT	19277
OY	1320	ACGTGTTCCGGACATGGGCTCTTCTCCGGTATGCGGTGGGGCTTCACATCCGAGCCTTGG	13739
Db	1928	ACGTGTTCCGGACATGGGCTCTTCTCCGGTATGCGGTGGGGCTTCACATCCGAGCCTTGC	19872
OY	1380	TCCCATGCTTCGACGCACTATGGTGCCTGGGACAGCTCCTTGCTCCCAACAGTGAAGCC	14339
Db	1988	TCCCATGCTTCGACGCACTATGGTGCCTGGGACAGCTCCTTGCTCCTTACAGTGAAGCC	20472
OY	1440	AGACTTATGGGACAGACAGATGCCACCAACCAACAGTGTGCGGCAAGAGCCGTGGCGTA	14939
Db	2048	AGACTTATGGGACAGACAGATGCCACCAACCAACAGTGTGCGGCAAGAGCCGTGGCGGTA	21072
OY	1500	GGGATATGTCTGAAAAATGAGCTTCGAGATGGGGCTTCGACCGCTGACGAGATGAAAGA	15539
Db	2108	GGGATATGTCTGAAAAATGAGCTTCGAGAGGGGGCTTCGACCGCTGACGATTTGGAAAGA	21672
OY	1560	CTTAAAGCAGCGGAGAAAGATCGACGGGACGCTGATGTGTGTCTGTATAGAGTCA	16139
Db	2168	CTTAAAGCAGCGGAGAAAGATCGACGGGACGCTGATGTGTGTCTGTATAGAGTCA	22272
OY	1620	GAGGTAACTCCCGTTCGCGTCTGTTTAAACGATGGAGGGCAGTGTATCTGAGCAGTATC	16739
Db	2228	GAGGTAACTCCCGTTCGCGTCTGTTTAAACGATGGAGGGCAGTGTATCTGAGCAGTATC	22872
OY	1680	GTTGCTGCGCGGCGGCCACACAGCATATATATGCTGACAGACTTAAACGAGCTGTCTTTCC	17339
Db	2288	GTTGCTGCGCGGCGGCCACACAGCATATATATGCTGACAGACTTAAACAGACTGTCTTTCC	23472
OY	1740	ATGGGTCCTTTTTCGACATCAACCGTCCT	1767
Db	2348	ATGGGTCCTTTTTCGACATCAACCGTCCT	2375

RESULT 2
 US-08-276-852-170/c
 Sequence 170, Application US/08276852
 Patent No. 5652138
 GENERAL INFORMATION:
 APPLICANT: Burton, Dennis R
 APPLICANT: Barbos, Carlos F
 APPLICANT: Lethner, Richard A
 TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
 TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
 NUMBER OF SEQUENCES: 170
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: The Scripps Research Institute, Office of
 ADDRESSEE: Patent Counsel
 STREET: 10666 NO. 5652138th Torrey Pines Road, Suite 220,
 STREET: Mail Drop TPC8
 CITY: La Jolla
 STATE: CA
 COUNTRY: USA
 ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/276,852
FILING DATE: 18-JUL-1994
CLASSIFICATION: 514
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCR1452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-276-852-170

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;

Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 60
DB 12647 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12588
QY 61 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 120
DB 12587 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12528
QY 121 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 180
DB 12527 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12468
QY 181 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 240
DB 12467 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12408
QY 241 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 300
DB 12407 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12348
QY 301 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 360
DB 12347 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12288
QY 361 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 420
DB 12287 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12228
QY 421 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 480
DB 12227 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12168
QY 481 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 540
DB 12167 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 12108
QY 541 AATGAGGCTATATGCGCCGATAGAGGCGACATCAAGCCGACATGCGCAATGCAATATG 600

DB 12107 GACTTCTCTACTGAGCAATCACTAGCATTTAGTATCGCATTTATCCATGATGATCGG 12048
QY 601 TTTTGGAGTATCATCAATGAGCGGTGATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 660
DB 12047 TTTTGGAGTATCATCAATGAGCGGTGATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 11988
QY 661 CACCCCATTTGAGCTATAGGAGGTTTGTGGACCAAAATCAAGGGAATTTCCAACTCTC 720
DB 11987 CACCCCATTTGAGCTATAGGAGGTTTGTGGACCAAAATCAAGGGAATTTCCAACTCTC 11928
QY 721 TGTGTAATTAACCCCGCCCGTGAAGCAATGAGCGGTGATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 780
DB 11927 TGTGTAATTAACCCCGCCCGTGAAGCAATGAGCGGTGATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 11868
QY 781 TATATAGCAGAGCTGTTTATGATAGCGGTGATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 840
DB 11867 TATATAGCAGAGCTGTTTATGATAGCGGTGATAGCGGTTTGACTCAAGGGAATTTCCAACTCTC 11808
QY 841 TTTGACCTTCATAGAAACACCGGGAACCGATTCAGCTTCGCGGCGGGAACGCTGCAAT 900
DB 11807 TTTGACCTTCATAGAAACACCGGGAACCGATTCAGCTTCGCGGCGGGAACGCTGCAAT 11748
QY 901 GGAAGCGGATTTCCCGGCGCAAGAGTACGTAAGTACCGCTATAGACTCTATAGGAGAC 960
DB 11747 GGAAGCGGATTTCCCGGCGCAAGAGTACGTAAGTACCGCTATAGACTCTATAGGAGAC 11688
QY 961 ACCCCTTTGGC-TCTTATGATGCTATGCTGTTTGGCTTGGGCTATACACCCCGC 1019
DB 11687 ACCCCTTTGGC-TCTTATGATGCTATGCTGTTTGGCTTGGGCTATACACCCCGC 11628
QY 1020 TTTCTTATGCTATAGGATGATAGCTTATAGCTTATAGGCTTATAGGCTTATAGGCTTAT 1079
DB 11627 TTTCTTATGCTATAGGATGATAGCTTATAGCTTATAGGCTTATAGGCTTATAGGCTTAT 11568
QY 1080 TGAACACCTCCCTATGATGATAGCTTATAGCTTATAGGCTTATAGGCTTATAGGCTTAT 1139
DB 11567 TGAACACCTCCCTATGATGATAGCTTATAGCTTATAGGCTTATAGGCTTATAGGCTTAT 11508
QY 1140 CACAACTCTCTATTTGCTATATGCTATATGCTATATGCTATATGCTATATGCTATATG 1199
DB 11507 CACAACTCTCTATTTGCTATATGCTATATGCTATATGCTATATGCTATATGCTATATG 11448
QY 1200 TGTATTTTTCAGAGATGAGGCTTCTTCCGATGAGGCTTCTTCCGATGAGGCTTCTTCCGAT 1259
DB 11447 TGTATTTTTCAGAGATGAGGCTTCTTCCGATGAGGCTTCTTCCGATGAGGCTTCTTCCGAT 11388
QY 1260 GTTCCCGGCTGCGGAGTTTATTAACATAGCTGAGTCTCAAGGGAATTTCCGAGT 1319
DB 11387 GTTCCCGGCTGCGGAGTTTATTAACATAGCTGAGTCTCAAGGGAATTTCCGAGT 11328
QY 1320 AGTGTTCGAGCATGAGGCTTCTTCCGATGAGGCTTCTTCCGATGAGGCTTCTTCCGAT 1379
DB 11327 AGTGTTCGAGCATGAGGCTTCTTCCGATGAGGCTTCTTCCGATGAGGCTTCTTCCGAT 11268
QY 1380 TCCCATGCTTCAGGAGCTCATGATGCTGCTGCGAGCTCTCTTCCGATGAGGCTTCTTCCGAT 1439
DB 11267 TCCCATGCTTCAGGAGCTCATGATGCTGCTGCGAGCTCTCTTCCGATGAGGCTTCTTCCGAT 11208
QY 1440 AAGCTTATGAGCAGACGATGCTGCTGCGAGCTCTCTTCCGATGAGGCTTCTTCCGAT 1499
DB 11207 AAGCTTATGAGCAGACGATGCTGCTGCGAGCTCTCTTCCGATGAGGCTTCTTCCGAT 11148
QY 1500 GGGTATGCTTGAAGAAATGAGTGGGAGATGGGAGTGGGAGTGGGAGTGGGAGTGGGAGT 1559
DB 11147 GGGTATGCTTGAAGAAATGAGTGGGAGATGGGAGTGGGAGTGGGAGTGGGAGTGGGAGT 11088
QY 1560 CTTAAGGCAAGCGGAGAAAGACGAGGCAAGCTAGTGTGTTGCTGATTAAGTCA 1619
DB 11087 CTTAAGGCAAGCGGAGAAAGACGAGGCAAGCTAGTGTGTTGCTGATTAAGTCA 11028
QY 1620 GAGGTATCTCCGCTTGGCTGCTGTTAAGGAGGAGGAGTGTAGTCTGAGCAGTACTC 1679
DB 11027 GAGGTATCTCCGCTTGGCTGCTGTTAAGGAGGAGGAGTGTAGTCTGAGCAGTACTC 10968

QY 1680 GTTGCTGCGCGCGCGCCACGACATATATAGCTGACAGCTAACGGAGCTGTTCTTCC 1739
DB 10967 GTTGCTGCGCGCGCGCCACGACATATATAGCTGACAGCTAACGGAGCTGTTCTTCC 10908
QY 1740 ATGGCTTTTTCGACGACCGGCTT 1767
DB 10907 ATGGCTTTTTCGACGACCGGCTT 10880

RESULT 3

US-08-899-575-156
Sequence 156, Application US/08899575
Patent No. 5770440
GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Scripps Research Institute, Office of
STREET: 10666 No. 5770440th Torrey Pines Road, Suite 220,
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
CLASSIFICATION: 435
FILING DATE: 24-JUL-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-899-575-156

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;

Best Local Similarity 97.8%; Pred. No. 0; Mismatches 38; Indels 1; Gaps 1;

Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGCTATATCGCGATAGAGCGACATCAAGCCGCGACATGCGCATATCG 60
DB 608 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGACATGCGCATATCG 667
QY 61 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATAT 120

DB 668 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATAT 727
QY 121 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 180
DB 728 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 787
QY 181 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 240
DB 788 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 847
QY 241 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 300
DB 848 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 907
QY 301 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 360
DB 908 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 967
QY 361 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 420
DB 968 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1027
QY 421 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 480
DB 1028 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1087
QY 481 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 540
DB 1088 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1147
QY 541 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 600
DB 1148 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1207
QY 601 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 660
DB 1208 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1267
QY 661 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 720
DB 1268 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1327
QY 721 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 780
DB 1328 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1387
QY 781 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 840
DB 1388 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1447
QY 841 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 900
DB 1448 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1507
QY 901 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 960
DB 1508 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1567
QY 961 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1019
DB 1568 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1627
QY 1020 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1079
DB 1628 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1687
QY 1080 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1139
DB 1688 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1747
QY 1140 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1199
DB 1748 ATATGAGCTATATCGCGATAGAGCGACATCAAGCTGCGCATATATCGCATATAT 1807

QY 1200 TGTATTTTACAGATGGGCTCCATTATTTTAAATTCATATATACAAACGCGC 1259
DB 1808 TGTATTTTACAGATGGGCTCCATTATTTTAAATTCATATATACAAACGCGC 1867
QY 1260 GTCCCGCCGCGCGCGAGTTTATTTTAAACATAGCGGATCTCCAGCGGAATCTCGGGT 1319
DB 1868 GTCCCGCCGCGCGCGAGTTTATTTTAAACATAGCGGATCTCCAGCGGAATCTCGGGT 1927
QY 1320 AGGTGTTCCGAGCATAGGCTCTTCGCGGATGCGGAGGCTTCCATCCGAGCCCTGG 1379
DB 1928 AGGTGTTCCGAGCATAGGCTCTTCGCGGATGCGGAGGCTTCCATCCGAGCCCTGG 1987
QY 1380 TCCCATGCTCCAGCATCTATGCTGCTCGGAGCTCTTGTCTCCAAAGTGGAGGCC 1439
DB 1988 TCCCATGCTCCAGCATCTATGCTGCTCGGAGCTCTTGTCTCCAAAGTGGAGGCC 2047
QY 1440 AGACTTAAAGCAGCAGATGCCACCAACCAACCAAGTGTGCGCAAGGCGGTGGGTA 1499
DB 2048 AGACTTAAAGCAGCAGATGCCACCAACCAACCAAGTGTGCGCAAGGCGGTGGGTA 2107
QY 1500 GGGTATGCTGTAATAATAGCTCGAGATCGGCGCTCGACCGCTGACCGCATGGAGAA 1559
DB 2108 GGGTATGCTGTAATAATAGCTCGAGATCGGCGCTCGACCGCTGACCGCATGGAGAA 2167
QY 1560 CTTAAGGCGCGCGCAG 1619
DB 2168 CTTAAGGCGCGCGCAG 2227
QY 1620 GAGTAACTCCGCTGCGGCTGCTTTAACGCTGAGAGGCGAGTGTAGTGTAGAGTATC 1679
DB 2228 GAGTAACTCCGCTGCGGCTGCTTTAACGCTGAGAGGCGAGTGTAGTGTAGAGTATC 2287
QY 1680 GTTGTGCG 1739
DB 2288 GTTGTGCG 2347
QY 1740 ATGGCTCTTTCTGCGAGTCAACGCTCTT 1767
DB 2348 ATGGCTCTTTCTGCGAGTCAACGCTCTT 2375

RESULT 4
US-08-899-575-170/c
Sequence 170, Application US/08899575
Patent No. 5770440
GENERAL INFORMATION:
APPLICANT: Burdon, Dennis R
APPLICANT: Barbas, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESSES:
ADDRESSEE: The Scripps Research Institute, Office of
ADDRESSEE: Patent Counsel
STREET: 10666 No. 577040th Torrey Pines Road, Suite 220,
STREET: Mail Drop TPC8
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852

FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 170:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-899-575-170

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGGCTATATGCGGATAGAGCGCATCAAGCGGACATGGCCATGATCATG 60
DB 12647 ATATGAGGCTATATGCGGATAGAGCGCATCAAGCGGACATGGCCATGATG 12588
QY 61 ATCTATACATTAATCAATATTGGCAATTAGCCATATTATTCATGTTATATAGCATTA 120
DB 12587 ATCTATACATTAATCAATATTGGCAATTAGCCATATTATTCATGTTATATAGCATTA 12528
QY 121 ATCATATTGGCTATTTGGCCATGTCATACCTGATTCGCTATCATATATATGACATTTAT 180
DB 12527 ATCATATTGGCTATTTGGCCATGTCATACCTGATTCGCTATCATATATATGACATTTAT 12468
QY 181 ATTTGGCCATGTCATATATGACCGGCGATGTCATGATTTATGATTTATATGAT 240
DB 12467 ATTTGGCTATGTCATATATGACCGGCGATGTCATGATTTATGATTTATATGAT 12408
QY 241 TATCAATTAACGGGGTCAATTAGTCAATAGCCCATATATAGAGTTCGGCTTACATTA 300
DB 12407 TATCAATTAACGGGGTCAATTAGTCAATAGCCCATATATAGAGTTCGGCTTACATTA 12348
QY 301 ACGGTAAATGCGCGCGCTGCGTGAACCGCCCAAGACCCCGCCCATGTCATTAATG 360
DB 12347 ACGGTAAATGCGCGCGCTGCGTGAACCGCCCAAGACCCCGCCCATGTCATTAATG 12288
QY 361 ACGTATGTTCCCATATGTAAGCGCATAGGAGCTTTCATATGAGTCAATGGGAGTAT 420
DB 12287 ACGTATGTTCCCATATGTAAGCGCATAGGAGCTTTCATATGAGTCAATGGGAGTAT 12228
QY 421 TTACGGTAACTGCCCATTTGGCAGTACATCAAGTATCATATATGCAAGTCCGCCCT 480
DB 12227 TTACGGTAACTGCCCATTTGGCAGTACATCAAGTATCATATATGCAAGTCCGCCCT 12168
QY 481 ATTGACGTCAATGACGGTAATAGCGCGCTGCGCATTAATGCCAGTACATGACCTTA 540
DB 12167 ATTGACGTCAATGACGGTAATAGCGCGCTGCGCATTAATGCCAGTACATGACCTTA 12108
QY 541 GACTTTCCTACTTGGCAGTACATCAAGTATGATGCGTATTAACATAGGAGTGGCG 600
DB 12107 GACTTTCCTACTTGGCAGTACATCAAGTATGATGCGTATTAACATAGGAGTGGCG 12048
QY 601 TTTTGGCAGTACATCAATGGCGGTGATAGCGGTTGATCTCAAGGAGATTTCCAAATCTC 660
DB 12047 TTTTGGCAGTACATCAATGGCGGTGATAGCGGTTGATCTCAAGGAGATTTCCAAATCTC 11988
QY 661 CACCCCATGACGTCAATGGAGTTGTTGTTGGACCAAAATCAACGGGACTTTCCAAA 720
DB 11987 CACCCCATGACGTCAATGGAGTTGTTGTTGGACCAAAATCAACGGGACTTTCCAAA 11928

QY	721	TGTTGTAATAAACC	CGCCCGCTTGAACCAATAGGAGCGGTGAACGTTGGAGAGTC	780
Db	11927	TGTTGTAACAAC	CTCCGCCCATTTGACCCAAATAGGCGCGTATGCGTTGGAGAGTC	11866
QY	781	TAATAAAGCAAG	CTCGTTATATGTAACCGTCAGATCGCTCTGGAGAAGCCATCCAGCTGT	840
Db	11867	TAATAAAGCAAG	CTCGTTATATGTAACCGTCAGATCGCTCTGGAGAAGCCATCCAGCTGT	11808
QY	841	TTTAAACCTCCATPA	AGACAACCCGGGACCGAATCCAGCTCGCGGGCGGGAAAGGTCATTT	900
Db	11807	TTTAAACCTCCATPA	AGACAACCCGGGACCGAATCCAGCTCGCGGGCGGGAAAGGTCATTT	11748
QY	901	GGAACCGCGAAT	TCCCGTGCACAGATGACGTAAAGTACCGCTATAAGACTTATAGCAAC	960
Db	11747	GGAACCGCGAAT	TCCCGTGCACAGATGACGTAAAGTACCGCTATAAGACTTATAGCAAC	11688
QY	961	ACCCCTTTGGC	TCTTATAGCATGCTATACGTCTTTTGGCTTGGGGCTATACACCCCCCG	1019
Db	11687	ACCCCTTTGGC	TCTTATAGCATGCTATACGTCTTTTGGCTTGGGGCTATACACCCCCCG	11628
QY	1020	TTCTCTATAGCAAT	AGAGATGGTATAGCTTACGCTATAGAGCGTGGGTTATTTGACATTAAT	1079
Db	11627	TTCTCTATAGCAAT	AGAGATGGTATAGCTTACGCTATAGAGCGTGGGTTATTTGACATTAAT	11566
QY	1080	TGACCACTCCCC	TAATGATGATGACTTTTCCATTAATAATCCATAACATGAGCTCTTTGC	1139
Db	11567	TGACCACTCCCC	TAATGATGATGACTTTTCCATTAATAATCCATAACATGAGCTCTTTGC	11508
QY	1140	CACAACTATCTCTA	TGAGCTATATAGCAATATCTGTGCTTGACAGAGCTGACACGGACATC	1199
Db	11507	CACAACTCTTTAT	TGAGCTATATAGCAATATCTGTGCTTGACAGAGCTGACACGGACATC	11448
QY	1200	TGATATTTTACAG	AGATGGGTCCTCATTTATTTATTAACAATTCACATATACAAACAGCC	1259
Db	11447	TGATATTTTACAG	AGATGGGTCCTCATTTATTTATTAACAATTCACATATACAAACAGCC	11388
QY	1260	GTCCCCCGTCCG	CACTTTTATTAACAATPACGTGGGATCTTCCACAGGAAATCTGGGT	1319
Db	11387	GTCCCCCGTCCG	CACTTTTATTAACAATPACGTGGGATCTTCCACAGGAAATCTGGGT	11328
QY	1320	ACGTGTTCCGGA	CAATGAGGCTTCTCCGATAGCGGTGGGCTTCCACATCCGAGCCCTGG	1379
Db	11327	ACGTGTTCCGGA	CAATGAGGCTTCTCCGATAGCGGTGGGCTTCCACATCCGAGCCCTGG	11266
QY	1380	TCCCATGCTTC	CAAGCACTATGATGCTCGCTGGGACCTCTTGCTCCCAACATGAGAGCC	1439
Db	11267	TCCCATGCTTC	CAAGCACTATGATGCTCGCTGGGACCTCTTGCTCCCAACATGAGAGCC	11208
QY	1440	AGACTTAAAGGA	CACAGACGATGCCACCAACACAGATGTGCGGACAAAGGCGGTGAGTA	1499
Db	11207	AGACTTAAAGGA	CACAGACGATGCCACCAACACAGATGTGCGGACAAAGGCGGTGAGTA	11148
QY	1500	GGGATATGTC	TGAAAAATGAGCTCGAGATCGGAGCTCGACCGCTGAACGAGATGGAGA	1559
Db	11147	GGGATATGTC	TGAAAAATGAGCTCGGAGATCGGAGCTCGACCGCTGAACGAGATGGAGA	11088
QY	1560	CTTAAAGCAGCG	GAGAGAAAGCAGGACGACGCTGATTTTGTGTTCGATTAAGGTA	1619
Db	11087	CTTAAAGCAGCG	GAGAGAAAGCAGGACGACGCTGATTTTGTGTTCGATTAAGGTA	11028
QY	1620	GAGGTAAC	CTCCGTTGCGGTCTGTTAACGATGGAGGACGATGTAGCTGACGACATCT	1679
Db	11027	GAGGTAAC	CTCCGTTGCGGTGCGGTCTGTTAACGATGGAGGACGATGTAGCTGACGACATCT	10966
QY	1680	GTTGCTGCGCG	GCGCCACCAACATATATGCTGACAGCTAAACGAGCTGTTCTTTCC	1739
Db	10967	GTTGCTGCGCG	GCGCCACCAACATATATGCTGACAGCTAAACGAGCTGTTCTTTCC	10908
QY	1740	ATGGGCTTTT	TTCGACATCAACGGCTCTT	1767
Db	10907	ATGGGCTTTT	TTCGACATCAACGGCTCTT	10880

```

RESULT 5
US-08-899-575-156
Sequence 156: Application US/08899575
Patent No. 5804440
GENERAL INFORMATION:
APPLICANT: Burton, Dennis R
APPLICANT: Barbos, Carlos F
APPLICANT: Lerner, Richard A
TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
NUMBER OF SEQUENCES: 170
CORRESPONDENCE ADDRESS:
ADDRESSSEE: The Scripps Research Institute, Office of
ADDRESSSEE: Patent Counsel
STREET: 10666 No. 5804440th Torrey Pines Road, Suite 220,
STREET: Mail Drop TPC8
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/899,575
FILING DATE: 24-JUL-1997
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/276,852
FILING DATE: 18-JUL-1994
APPLICATION NUMBER: US 08/178,302
FILING DATE: 30-SEP-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/954,148
FILING DATE: 30-SEP-1992
ATTORNEY/AGENT INFORMATION:
NAME: Fitting, Thomas
REGISTRATION NUMBER: 34,163
REFERENCE/DOCKET NUMBER: SCRI452P
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619-554-2937
TELEFAX: 619-554-6312
INFORMATION FOR SEQ ID NO: 156:
SEQUENCE CHARACTERISTICS:
LENGTH: 13254 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: circular
MOLECULE TYPE: DNA (genomic)
US-08-899-575-156

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1

QY 1 ATATGAGGCTATATCGCGGATAGAGGGGACATCAAGCCGGGACATGGCGCAATGCATATCG 60
Db ATATGAGGCTATATCGCGGATAGAGGGGACATCAAGCTGGGACATGGCGCAATGCATATCG 667
QY 61 ATCTATACATTGATCAATATATGGCAATTAGCCATATTATTCAATGGTTATATATAGCATPA 120
Db ATCTATACATTGATCAATATATGGCAATTAGCCATATTATTCAATGGTTATATATAGCATPA 727
QY 121 ATCAATAATTGGCTATTTGGCCATTGCATACGTTGTATCCGTAATCATATAATGTAACCTTAT 180
Db ATCAATAATTGGCTATTTGGCCATTGCATACGTTGTATCCATATCAATAATAATGTAACCTTAT 787
QY 181 ATTGGCCCATGTCCAAATATAGCCGCCAATGTTGACATTTGATATGACATGATTAATATAG 240
Db ATTGGCCCATGTCCAAATATAGCCGCCAATGTTGACATTTGATATGACATGATTAATATAG 847

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241 TAATCAATTACGGGCTCATTTAGTTCATAGCCCATATATGAGATTCCGGTTACATACCTT 300
848 TAATCAATTACGGGCTCATTTAGTTCATAGCCCATATATGAGATTCCGGTTACATACCTT 907
301 ACGGTAATGCGCGCTGCTGAGACCGCCCAAGACCCCGCCCATTTAGCTCAATATG 360
908 ACGGTAATGCGCGCTGCTGAGACCGCCCAAGACCCCGCCCATTTAGCTCAATATG 967
361 ACGTATGTTCCCATGTAAGCCCAATAGGGAATTTCATATGAGCAATGAGTGAAGTAT 420
968 ACGTATGTTCCCATGTAAGCCCAATAGGGAATTTCATATGAGCAATGAGTGAAGTAT 1027
421 TTACGGTAATGCGCGCTGCTGAGACCGCCCAAGTATGATATGCAAGTCCGGCTT 480
1028 TTACGGTAATGCGCGCTGCTGAGACCGCCCAAGTATGATATGCAAGTCCGGCTT 1087
481 ATTGACGTCAATGACGGTAATGCGCGCTGCTGAGACCGCCCAAGTATGATATGAG 540
1088 ATTGACGTCAATGACGGTAATGCGCGCTGCTGAGACCGCCCAAGTATGATATGAG 1147
541 GACCTTCCCATGTAAGCCCAATAGGGAATTTCATATGAGCAATGAGTGAAGTAT 600
1148 GACCTTCCCATGTAAGCCCAATAGGGAATTTCATATGAGCAATGAGTGAAGTAT 1207
601 TTTTGGCAGTACATCAATGCGCGCTGAGATAGCGGTTTGAATGAGGAGATTTCCAGTCTC 660
1208 TTTTGGCAGTACATCAATGCGCGCTGAGATAGCGGTTTGAATGAGGAGATTTCCAGTCTC 1267
661 CACCCCATGTAAGCAATGAGGAGTTGTTTGGCAACCAATCAACGGGATCTTCCAAA 720
1268 CACCCCATGTAAGCAATGAGGAGTTGTTTGGCAACCAATCAACGGGATCTTCCAAA 1327
721 TGTGTAATTAACCGCGCTGAGCAATGAGGAGGAGTGAAGGAGTGAAGGAGTGAAGG 780
1328 TGTGTAATTAACCGCGCTGAGCAATGAGGAGGAGTGAAGGAGTGAAGGAGTGAAGG 1387
781 TATATACGACAGAGCTGTTTATGTAACGCTGAGATGCGCTGAGAGCGCCATCCAGCTGT 840
1388 TATATACGACAGAGCTGTTTATGTAACGCTGAGATGCGCTGAGAGCGCCATCCAGCTGT 1447
841 TTTGACCTCCATGAAGAAGACCGGAGCGGATCCAGCTTCCGGGCGGGAGCGGTGCAT 900
1448 TTTGACCTCCATGAAGAAGACCGGAGCGGATCCAGCTTCCGGGCGGGAGCGGTGCAT 1507
901 GGAAGCGCGGATTCCTGCTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 960
1508 GGAAGCGCGGATTCCTGCTGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAG 1567
961 ACCCTTTGGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1019
1568 ACCCTTTGGGCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1627
1020 TTTCTTATGCTATAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1079
1628 TTTCTTATGCTATAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1687
1080 TGACCACTTCCCTATTTGGTGAAGATGATGATGATGATGATGATGATGATGATGATGATG 1139
1688 TGACCACTTCCCTATTTGGTGAAGATGATGATGATGATGATGATGATGATGATGATGATG 1747
1140 CACAACTATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1199
1748 CACAACTATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1807
1200 TGTATTTTTCACAGATGAGGATCCATTTATTTATTTTACAAATTCATATATACAAACGCGC 1259
1808 TGTATTTTTCACAGATGAGGATCCATTTATTTATTTTACAAATTCATATATACAAACGCGC 1867
1260 GTTCCCGCGTGGCGGAGTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 1319
1868 GTTCCCGCGTGGCGGAGTTTATTTATTTATTTATTTATTTATTTATTTATTTATTTATTT 1927

1320 ACGTGTCCGAGCATGAGGCTCTTCTCCGGTACCGGCTGAGGCTTCCACATCCGAGCCTTGG 1379
1928 ACGTGTCCGAGCATGAGGCTCTTCTCCGGTACCGGCTGAGGCTTCCACATCCGAGCCTTGG 1987
1380 TCCATGCTCCAGCAGATCATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1439
1988 TCCATGCTCCAGCAGATCATATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2047
1440 AGACTTACGACAGCAGATCCCAACACACAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1499
2048 AGACTTACGACAGCAGATCCCAACACAGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGG 2107
1500 GGGATGCTGTGTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1559
2108 GGGATGCTGTGTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2167
1560 CTTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1619
2168 CTTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2227
1620 GAGGTACTCCCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1679
2228 GAGGTACTCCCGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2287
1680 GTTGCTGCGGCGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1739
2288 GTTGCTGCGGCGCGGCGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2347
1740 ATGGGTCTTTTCTGAGTACCGCTCTT 1767
2348 ATGGGTCTTTTCTGAGTACCGCTCTT 2375

RESULT 6

US-08-899-575-170/c

; Sequence 170, Application US/08899575

; Patent No. 5804440

; GENERAL INFORMATION:

; APPLICANT: Burton, Dennis R

; APPLICANT: Barbas, Carlos F

; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES

; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS

; NUMBER OF SEQUENCES: 170

; CORRESPONDENCE ADDRESS:

; ADDRESS: The Scripps Research Institute, Office of

; ADDRESS: Patent Counsel

; STREET: 10666 No. 580440th Torrey Pines Road, Suite 220,

; CITY: La Jolla

; STATE: CA

; COUNTRY: USA

; ZIP: 92037

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patentin Release #1.0, Version #1.25

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/899,575

; FILING DATE: 24-JUL-1997

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 08/276,852

; FILING DATE: 18-JUL-1994

; APPLICATION NUMBER: US 08/178,302

; FILING DATE: 30-SEP-1993

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: US 07/954,148

; FILING DATE: 30-SEP-1992

; ATTORNEY/AGENT INFORMATION:

; NAME: Fitting, Thomas

; REGISTRATION NUMBER: 34,163

REFERENCE/DOCKET NUMBER: SCRI452P
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 619-554-2937
 TELEFAX: 619-554-6112
 INFORMATION FOR SEQ. ID NO: 170:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 13254 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: circular
 MOLECULE TYPE: DNA (genomic)
 US-08-899-575-170

Query Match 95.9%; Score 1695.2; DB 1; Length 13254;
 Best Local Similarity 97.8%; Pred. No. 0;
 Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGCTATATCGCCGATAGAGGACATCAAGCCGACATGCGCCCAATGATG 60
 DB 12647 AATATGAGCTATATCGCCGATAGAGGACATCAAGCTGCGCCCAATGATG 12588
 QY 61 ATCTATACATGTAATCAATTTGGCAATTAGCCATTTATTCATTTGTTATATAGATTA 120
 DB 12587 ATCTATACATGTAATCAATTTGGCAATTAGCCATTTATTCATTTGTTATATAGATTA 12528
 QY 121 ATCAATATTTGGCTATTGGCCATGATGATGATGATGATGATGATGATGATGATGAT 180
 DB 12527 ATCAATATTTGGCTATTGGCCATGATGATGATGATGATGATGATGATGATGATGAT 12468
 QY 181 ATTTGGCCCATGTCATTAATGACCGCCCATGTTGATGATGATGATGATGATGATGATGAT 240
 DB 12467 ATTTGGCCCATGTCATTAATGACCGCCCATGTTGATGATGATGATGATGATGATGATGAT 12408
 QY 241 TATATCAATTAACGGGGGATTAATGTTATGATGATGATGATGATGATGATGATGATGAT 300
 DB 12407 TATATCAATTAACGGGGGATTAATGTTATGATGATGATGATGATGATGATGATGATGAT 12348
 QY 301 ACGGTAAATGCGCCGCTGCTGACCGCCCAAGACCGCCGCGCCCATTTGATGATGATGATG 360
 DB 12347 ACGGTAAATGCGCCGCTGCTGACCGCCCAAGACCGCCGCGCCCATTTGATGATGATGATG 12288
 QY 361 ACGTATGTTCCCATTAATGACCGCCCATTAATGATGATGATGATGATGATGATGATGATGAT 420
 DB 12287 ACGTATGTTCCCATTAATGACCGCCCATTAATGATGATGATGATGATGATGATGATGATGAT 12228
 QY 421 TTAACGTAATGCGCCGCTGCTGACCGCCCAAGACCGCCGCGCCCATTTGATGATGATGATG 480
 DB 12227 TTAACGTAATGCGCCGCTGCTGACCGCCCAAGACCGCCGCGCCCATTTGATGATGATGATG 12168
 QY 481 ATTTGACGTAATGACCGGTAATGCGCCGCTGCTGACCGCCCAAGACCGCTTATACG 540
 DB 12167 ATTTGACGTAATGACCGGTAATGCGCCGCTGCTGACCGCCCAAGACCGCTTATACG 12108
 QY 541 GACTTCTCTACTTGGCAGTACATCTAAGTATGATGATGATGATGATGATGATGATGATGAT 600
 DB 12107 GACTTCTCTACTTGGCAGTACATCTAAGTATGATGATGATGATGATGATGATGATGATGAT 12048
 QY 601 TTTTGGCAATTAATCAATGCGGCTGATGATGATGATGATGATGATGATGATGATGATGAT 660
 DB 12047 TTTTGGCAATTAATCAATGCGGCTGATGATGATGATGATGATGATGATGATGATGATGAT 11988
 QY 661 CACCCCATTAATGACGTAATGCGGTAATGCGGCTGATGATGATGATGATGATGATGATGATGAT 720
 DB 11987 CACCCCATTAATGACGTAATGCGGTAATGCGGCTGATGATGATGATGATGATGATGATGATGAT 11928
 QY 721 TGTGTAATTAATGACCGCCGCTGATGACCAATGCGGCTGATGATGATGATGATGATGATGATGAT 780
 DB 11927 TGTGTAATTAATGACCGCCGCTGATGACCAATGCGGCTGATGATGATGATGATGATGATGATGAT 11868
 QY 781 TATATAGACAGAGCTGTTAGTAAACCGTCAATGCGCTGAGAGAGCCATCCAGCTGT 840
 DB 11867 TATATAGACAGAGCTGTTAGTAAACCGTCAATGCGCTGAGAGAGCCATCCAGCTGT 11808

QY 841 TTATGACCTTCATAGAAAGACCGGAGCCGATCCAGCTCTCCGCGCGGAGACGCTGAT 900
 DB 11807 TTATGACCTTCATAGAAAGACCGGAGCCGATCCAGCTCTCCGCGCGGAGAGCTGAT 11748
 QY 901 GGAAGCGGATTTCCCGCGGAGAGTACGTAATGACCGCTTATGACTATATGAGC 960
 DB 11747 GGAAGCGGATTTCCCGCGGAGAGTACGTAATGACCGCTTATGAGTATATGAGC 11688
 QY 961 ACCCTTTTGGC-TCTTATGACATGATATGCTGTTTGGCTTGGGCTTATACCCCGC 1019
 DB 11687 ACCCTTTTGGCTTCTTATGACATGATATGCTGTTTGGCTTGGGCTTATACCCCGC 11628
 QY 1020 TTCTTATGCTATAGGTATGATATGATGATGATGATGATGATGATGATGATGATGAT 1079
 DB 11627 TTCTTATGCTATAGGTATGATATGATGATGATGATGATGATGATGATGATGATGAT 11568
 QY 1080 TGACCACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1139
 DB 11567 TGACCACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11508
 QY 1140 CACAATATCTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1199
 DB 11507 CACAATCTCTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11448
 QY 1200 TGTATTTTACAGATGAGGCTCCATTTATTTTAAATTTTAAATTTTAAATTTTAAATTT 1259
 DB 11447 TGTATTTTACAGATGAGGCTCCATTTATTTTAAATTTTAAATTTTAAATTTTAAATTT 11388
 QY 1260 GTCCCGCCGCGCGGAGTTTATTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 1319
 DB 11387 GTCCCGAGGCGCGGAGTTTATTTAAATTTTAAATTTTAAATTTTAAATTTTAAATTT 11328
 QY 1320 ACGTGTCCGAGCATGAGGCTTTCTCCGATGAGGCTTCCGATGAGGCTTCCGATGAGGCT 1379
 DB 11327 ACGTGTCCGAGCATGAGGCTTTCTCCGATGAGGCTTCCGATGAGGCTTCCGATGAGGCT 11268
 QY 1380 TCCCATGCTCCAGGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1439
 DB 11267 TCCCATGCTCCAGGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11208
 QY 1440 AGACTTATGAGCAGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1499
 DB 11207 AGACTTATGAGCAGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11148
 QY 1500 GGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1559
 DB 11147 GGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 11088
 QY 1560 CTTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1619
 DB 11087 CTTAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 11028
 QY 1620 GAGGTATCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679
 DB 11027 GAGGTATCTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 10968
 QY 1680 GTTGCTGCG 1739
 DB 10967 GTTGCTGCG 10908
 QY 1740 ATGGGTCTTTTCTGAGTACCGCTCTT 1767
 DB 10907 ATGGGTCTTTTCTGAGTACCGCTCTT 10880

RESULT 7
 PCT-US95-08743-156
 ; Sequence 156, Application PC/RUS9508743
 ; GENERAL INFORMATION:
 ; APPLICANT: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
 ; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
 ; NUMBER OF SEQUENCES: 170

COMPUTER READABLE FORM:
 MEDIUM TYPE: floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.25 (EPO)
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: PCT/US95/08743
 FILING DATE: 11-JUL-1995
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: US 08/276,852
 FILING DATE: 18-JUL-1994
 INFORMATION FOR SEQ ID NO: 156:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 13254 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: circular
 MOLECULE TYPE: DNA (genomic)
 PCT-US95-08743-156

Query Match 95.9%; Score 1695.2; DB 5; Length 13254;
 Best Local Similarity 97.8%; Pred. No. 0;
 Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

1 ATATGAGCTATATCGCCGATAGAGCGACATCAAGCCGCGACATGCGCATATGCG 60
 608 ATATGAGCTATATCGCCGATAGAGCGACATCAAGCTGCGCATATGCGCATATGCG 667
 61 ATCTATACATTTGATTAATTTGGCAATTAAGCCATTTATCTTGGTTATATAGATAA 120
 668 ATCTATACATTTGATTAATTTGGCAATTAAGCCATTTATCTTGGTTATATAGATAA 727
 121 ATCAATATTTGGCATTTGGCATTTGGCATTTGGCATTTGGCATTTGGCATTTGGCAT 180
 728 ATCAATATTTGGCATTTGGCATTTGGCATTTGGCATTTGGCATTTGGCATTTGGCAT 787
 181 ATTGCCCATATGTCATATGACCGCCATGTTGACATTTGATTTGATTTGATTTGAT 240
 788 ATTGCCCATATGTCATATGACCGCCATGTTGACATTTGATTTGATTTGATTTGAT 847
 241 TATCAATTAACGGGGTCAATTAAGTTCAATGACCCATATATGAGTTCCGGCTTACATA 300
 848 TATCAATTAACGGGGTCAATTAAGTTCAATGACCCATATATGAGTTCCGGCTTACATA 907
 301 AGCGTAATGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
 908 AGCGTAATGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 967
 361 ACCTATGTTCCCATTAAGTAAAGCCATAGGACCTTCCATTTGATGATGATGATGAT 420
 968 ACCTATGTTCCCATTAAGTAAAGCCATAGGACCTTCCATTTGATGATGATGATGAT 1027
 421 TTAAGGTAATGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
 1028 TTAAGGTAATGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1087
 481 ATTAGAGTCAATAGCGGTAAATGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
 1088 ATTAGAGTCAATAGCGGTAAATGCGCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1147
 541 GACTTTCCTACTTGGAGTACATCTAGTATGATGATGATGATGATGATGATGATGATG 600
 1148 GACTTTCCTACTTGGAGTACATCTAGTATGATGATGATGATGATGATGATGATGATG 1207
 601 TTTTGGAGTACATCAATGCGGTGATAGCGGTTTGAATCAAGGGGATTTCCAAATCTC 660
 1208 TTTTGGAGTACATCAATGCGGTGATAGCGGTTTGAATCAAGGGGATTTCCAAATCTC 1267
 661 CACCCCATTTGACGTCATGCGGAGTTGTTTGGACCAAAATCAAGGGGATTTCCAAAT 720
 1268 CACCCCATTTGACGTCATGCGGAGTTGTTTGGACCAAAATCAAGGGGATTTCCAAAT 1327
 721 TGTGTAATTAACCCCGCCGTTGACGCAATGCGGCGGTGAGCGGTGACGCGTGTG 780

1328 TGTGTAATTAACCCCGCCGTTGACGCAATGCGGCGGTGAGCGGTGACGCGTGTG 1387
 781 TATATAGAGAGCTGTTTATGTAACCGTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 840
 1388 TATATAGAGAGCTGTTTATGTAACCGTCAATGCTGCTGCTGCTGCTGCTGCTGCTGCT 1447
 841 TTTGACCTTCATAGAGACACCGGAGCCGATCCAGCTTCCGCGCGGAGACGCTGAT 900
 1448 TTTGACCTTCATAGAGACACCGGAGCCGATCCAGCTTCCGCGCGGAGACGCTGAT 1507
 901 GGAAGCGGATTTCCCGTCCCAAGAGTGAAGTACCGCTTATAGCTTATAGGAC 960
 1508 GGAAGCGGATTTCCCGTCCCAAGAGTGAAGTACCGCTTATAGCTTATAGGAC 1567
 961 ACCCGTTGGC-TCTTATGCAATGATCTGTTTGGCTTGGGGCTTATACACCCCGC 1019
 1568 ACCCGTTGGC-TCTTATGCAATGATCTGTTTGGCTTGGGGCTTATACACCCCGC 1627
 1020 TTCCTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1079
 1628 TTCCTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1687
 1080 TGAACAATCCCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1139
 1688 TGAACAATCCCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1747
 1140 CACAATCTCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1199
 1748 CACAATCTCTATTTGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1807
 1200 TGTATTTTATACAGATGAGGCTCCATTTATTTATTAACAATCAATATCAATATCA 1259
 1808 TGTATTTTATACAGATGAGGCTCCATTTATTTATTAACAATCAATATCAATATCA 1867
 1260 GTTCCCGCTGCGCGAGTTTATTAACAATGCGGTGATTCACACGGAATCTCGGCT 1319
 1868 GTTCCCGCTGCGCGAGTTTATTAACAATGCGGTGATTCACACGGAATCTCGGCT 1927
 1320 AGCTGTTCCGACATGAGGCTCTTCCCGTACCGGTGAGGCTTCCACATCCGAGCC 1379
 1928 AGCTGTTCCGACATGAGGCTCTTCCCGTACCGGTGAGGCTTCCACATCCGAGCC 1987
 1380 TCCCATGCTCCAGGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1439
 1988 TCCCATGCTCCAGGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 2047
 1440 AGACTTATGACACAGACATGATGATGATGATGATGATGATGATGATGATGATGATG 1499
 2048 AGACTTATGACACAGACATGATGATGATGATGATGATGATGATGATGATGATGATG 2107
 1500 GGGTATGTTCTGAAATTAAGTCTGCGGAGCGGCTTGGACCGCTGACCATTTGGAMA 1559
 2108 GGGTATGTTCTGAAATTAAGTCTGCGGAGCGGCTTGGACCGCTGACCATTTGGAMA 2167
 1560 CTTAAGGCGAGCGGAGAAAGACGAGGACGCTGATGTTGTTGATTAAGGCTA 1619
 2168 CTTAAGGCGAGCGGAGAAAGACGAGGACGCTGATGTTGTTGATTAAGGCTA 2227
 1620 GAGTAACTCCGCTGCGGTGCTGTTAATGCTGAGAGGAGCTGATGATGAGGCTA 1679
 2228 GAGTAACTCCGCTGCGGTGCTGTTAATGCTGAGAGGAGCTGATGATGAGGCTA 2287
 1680 GTTGTGCGCGCGCGCGCCACAGACATTAATAGCTGACATTAACGACTGTTCTTTC 1739
 2288 GTTGTGCGCGCGCGCGCCACAGACATTAATAGCTGACATTAACGACTGTTCTTTC 2347
 1740 ATGGGCTTTTCTGACAGTACCGGCTCTT 1767
 2348 ATGGGCTTTTCTGACAGTACCGGCTCTT 2375

RESULT 8

PCT-US95-08743-170/c
; Sequence 170, Application PC/TUS9508743
; GENERAL INFORMATION:
; APPLICANT:
; TITLE OF INVENTION: HUMAN NEUTRALIZING MONOCLONAL ANTIBODIES
; TITLE OF INVENTION: TO HUMAN IMMUNODEFICIENCY VIRUS
; NUMBER OF SEQUENCES: 170
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25 (EPO)
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/08743
; FILING DATE: 11-JUL-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/276,852
; FILING DATE: 18-JUL-1994
; INFORMATION FOR SEQ ID NO: 170:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13254 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: DNA (genomic)
; PCT-US95-08743-170

Query Match 95.9%; Score 1695.2; DB 5; Length 13254;
Best Local Similarity 97.8%; Pred. No. 0;
Matches 1729; Conservative 0; Mismatches 38; Indels 1; Gaps 1;

QY 1 ATATGAGCTATATCGCGATAGAGGCGACATCAAGCCGACATGCGCAATGCATATCG 60
Db 12647 ATATGAGCTATATCGCGATAGAGGCGACATCAAGCTGCGACATGCGCAATGCATATCG 12588
QY 61 ATCTATACATTGAATCAATATGCGCAATTAGCCATATTATTATTGTTATATATGATTA 120
Db 12587 ATCTATACATTGAATCAATATGCGCAATTAGCCATATTATTATTGTTATATATGATTA 12528
QY 121 ATCAATTTGGCTATTGGCCATTGCGATGCGTATGCGTATGCGTATGCGTATGCGTAT 180
Db 12527 ATCAATTTGGCTATTGGCCATTGCGATGCGTATGCGTATGCGTATGCGTATGCGTAT 12468
QY 181 ATTGGCCATGTCATATGACCGCCATGTTGACATTTGATTTGATTTGATTTGATTTGAT 240
Db 12467 ATTGGCCATGTCATATGACCGCCATGTTGACATTTGATTTGATTTGATTTGATTTGAT 12408
QY 241 TAAATCAATTAAGGGGCTATTAGTTCATAGCCCATATATGAGATTGCGGCTTACATACT 300
Db 12407 TAAATCAATTAAGGGGCTATTAGTTCATAGCCCATATATGAGATTGCGGCTTACATACT 12348
QY 301 ACGGTAATGCGCGCTGCGTACCGGCCAAGACCGCCCGCCATGAGTCAATATG 360
Db 12347 ACGGTAATGCGCGCTGCGTACCGGCCAAGACCGCCCGCCATGAGTCAATATG 12288
QY 361 ACGTATGTTCCCATAGTAAGCCCAATAGGACTTTCCATTGACGTCAATGGTGGAGTAT 420
Db 12287 ACGTATGTTCCCATAGTAAGCCCAATAGGACTTTCCATTGACGTCAATGGTGGAGTAT 12228
QY 421 TTAACGTAATCTGCCCATTTGGCGAGTACATCAAGTATATGATGCGAAGTCCGCCCT 480
Db 12227 TTAACGTAATCTGCCCATTTGGCGAGTACATCAAGTATATGATGCGAAGTCCGCCCT 12168
QY 481 ATTGACGTCATAGCGGTAATGCGCGCTGCGATTAATGCGCCATGACATGACCTTAAG 540
Db 12167 ATTGACGTCATAGCGGTAATGCGCGCTGCGATTAATGCGCCATGACATGACCTTAAG 12108
QY 541 GACTTTCCTACTGGCGAGTACATGATTAATGATTCATGCTATTAACATGATGATGCGG 600
Db 12107 GACTTTCCTACTGGCGAGTACATGATTAATGATTCATGCTATTAACATGATGATGCGG 12048
QY 601 TTTTGGAGTACATCAATGCGGCTGATGAGCGTTTGAATCAGCGGGAATTCAGAGTCTC 660
|||||

Db 12047 TTTTGGAGTACATCAATGCGGCTGATGAGCGGTTTGAATCAGCGGGAATTCAGAGTCTC 11988
QY 661 CACCCCATGAGCTCAATGGAGTTGTTTGGACCAAAATCAACGGGACTTTCCAAA 720
Db 11987 CACCCCATGAGCTCAATGGAGTTGTTTGGACCAAAATCAACGGGACTTTCCAAA 11928
QY 721 TGTGTAATTAACCCCGCCGTTGACGCAATGGCGGTGAGGCGTGTACGTTGGAGGTC 780
Db 11927 TGTGTAATTAACCCCGCCGTTGACGCAATGGCGGTGAGGCGTGTGTACGTTGGAGGTC 11868
QY 781 TAAATAGAGAGCTGTTTGAACCGTCAATGCGTGGAGAGCCATCCAGCTGT 840
Db 11867 TAAATAGAGAGCTGTTTGAACCGTCAATGCGTGGAGAGCCATCCAGCTGT 11808
QY 841 TTGACCTCATAGAAAGACCGGGACCGATCCAGCTCCGCGCGCGGAGAGTGTCAIT 900
Db 11807 TTGACCTCATAGAAAGACCGGGACCGATCCAGCTCCGCGCGCGGAGAGTGTCAIT 11748
QY 901 GGAAAGCGGATTTCCCGTCCCAAGAGTGAAGTACCGCTATAGCTTATAGGCAC 960
Db 11747 GGAAAGCGGATTTCCCGTCCCAAGAGTGAAGTACCGCTATAGAGTATAGGCC 11688
QY 961 ACCCTTTGGC-TCTTATGATGCTATGCTTTTGGCTGGGCTTATACACCCCGC 1019
Db 11687 ACCCTTTGGC-TCTTATGATGCTATGCTTTTGGCTGGGCTTATATACACCCCGC 11628
QY 1020 TTCCCTATGCTATAGGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1079
Db 11627 TTCCCTATGCTATAGGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 11568
QY 1080 TGAACATCCCTATTTGATGAGATGATGATGATGATGATGATGATGATGATGATGAT 1139
Db 11567 TGAACATCCCTATTTGATGAGATGATGATGATGATGATGATGATGATGATGATGAT 11508
QY 1140 CACAATATCTATATGCTATATGCTATATGCTATATGCTATATGCTATATGCTATATGCT 1199
Db 11507 CACAATATCTATATGCTATATGCTATATGCTATATGCTATATGCTATATGCTATATGCT 11448
QY 1200 TGTATTTTAAAGAGATGGGCTCCATTTTATTTTAAATTAATTAATTAATTAATTA 1259
Db 11447 TGTATTTTAAAGAGATGGGCTCCATTTTATTTTAAATTAATTAATTAATTAATTAATTA 11388
QY 1260 GTCCCGCGTCCCGAGTTTATTAACATAGCGGATCTCCAGCGGAATCTCGGCT 1319
Db 11387 GTCCCGCGTCCCGAGTTTATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 11328
QY 1320 ACGTGTCCGGAATAGGCTCTTCCCGTAAAGCGGCGGCTTCCATCCGAGCCCTGG 1379
Db 11327 ACGTGTCCGGAATAGGCTCTTCCCGTAAAGCGGCGGCTTCTAATCCGAGCCCTGG 11268
QY 1380 TCCCATGCTCCAGGAGCTCATGCTGCTGCGAGCTCTTCTCCCAATGAGAGGC 1439
Db 11267 TCCCATGCTCCAGGAGCTCATGCTGCTGCGAGCTCTTCTCCCAATGAGAGGC 11208
QY 1440 AGACTTAAAGCAGACGATGCGCACACACAGTGTGCGGCAAGGCGGTGCGGTA 1499
Db 11207 AGACTTAAAGCAGACGATGCGCACACACAGTGTGCGGCAAGGCGGTGCGGTA 11148
QY 1500 GGGTATGCTCTGAAAATTAAGCTCGGAGTGGGCTCGACCGCTGACCGCAATGGAAGA 1559
Db 11147 GGGTATGCTCTGAAAATTAAGCTCGGAGTGGGCTCGACCGCTGACCGCAATTTGGAAGA 11088
QY 1560 CTTAAGCGAGCGGCAAGAAAGACGAGGACGCTGATGTTGTGTGATTAAGAGTCA 1619
Db 11087 CTTAAGCGAGCGGCAAGAAAGATGACGAGGACGCTGATGTTGTGTGATTAAGAGTCA 11028
QY 1620 GAGGTAACTCCGTTGCGGTGCTGTTAAGTGAAGGCGAGTGTGATGACAGTATC 1679
Db 11027 GAGGTAACTCCGTTGCGGTGCTGTTAAGTGAAGGCGAGTGTGATGACAGTATC 10968
QY 1680 GTTGTGCGCGCGCGCGCCACGACATTAATAGCTGACATTAAGGATGTTCTTTC 1739
Db 10967 GTTGTGCGCGCGCGCGCCACGACATTAATAGCTGACATTAAGGATGTTCTTTC 10908

QY 1740 ATGGGTCTTTTCTGACATCAGCTCCTT 1767
Db 10907 ATGGGTCTTTTCTGACATCAGCTCCTT 10880

RESULT 9

US-08-760-615-7
; Sequence 7, Application US/08760615
; Patent No. 6200959
; GENERAL INFORMATION:
; APPLICANT: Haynes, Joel R
; APPLICANT: Schmaljohn, Connie S
; APPLICANT: Fuller, Deborah L
; APPLICANT: Schmaljohn, Alan
; APPLICANT: Jahrling, Peter B
; TITLE OF INVENTION: GENETIC INDUCTION OF ANTI-VIRAL IMMUNE
; TITLE OF INVENTION: RESPONSE AND GENETIC VACCINE FOR FILOVIRUS
; NUMBER OF SEQUENCES: 17
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Quarles & Brady
; STREET: 1 South Pinckney Street
; CITY: Madison
; STATE: WI
; COUNTRY: US
; ZIP: 53703
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/760,615
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Berson, Bennet J
; REGISTRATION NUMBER: 37094
; REFERENCE/DOCKET NUMBER: 110229,91241
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 608-251-5000
; TELEFAX: 608-251-9166
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 4326 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: circular
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "Expression vector
; IMMEDIATE SOURCE:
; CLONE: pMRG7077
; FEATURE:
; NAME/KEY: promoter
; LOCATION: 1250..2062
; FEATURE:
; NAME/KEY: intron
; LOCATION: 2063..2887
; OTHER INFORMATION: /function= "Human Cytoomegalovirus
; OTHER INFORMATION: Intron A"
; FEATURE:
; NAME/KEY: polyA site
; LOCATION: 2912..3314
; NAME/KEY: CDS
; LOCATION: complement (299..1114)
US-08-760-615-7

Query Match 91.7%; Score 1620.6; DB 3; Length 4326;
Best Local Similarity 99.1%; Pred. No. 0;
Matches 1629; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 123 CAAATATGGCTATTGGCCATTGGCATACGTTGATCCGATATCAATATATGATATTATAT 182
Db 1255 CAATATATGGCTATTGGCCATTGGCATACGTTGATCCGATATCAATATATGATATTATAT 1314
QY 189 TGGCCCATATGCTAATATGACCGGCAATGTTGACATGATATATGATATGATATATGATA 242
Db 1315 TGCTCATATGCTAATATGACCGGCAATGTTGACATGATATATGATATGATATATGATA 1374
QY 243 ATCAATTAACGGGGGCTATTAGTTTCATATAGCCATATATGAGTTCCGCTTACATTAAC 302
Db 1375 ATCAATTAACGGGGGCTATTAGTTTCATATAGCCATATATGAGTTCCGCTTACATTAAC 1434
QY 303 GGTAAATGSCCCGCTGCTGCTGACCGCCCAACGACCCCGCCATTGACGTCAATATGAC 362
Db 1435 GGTAAATGSCCCGCTGCTGCTGACCGCCCAACGACCCCGCCATTGACGTCAATATGAC 1494
QY 363 GATATGCTCCATATGATAGCCCAATAGGACCTTTCATTAAGCTCAATGGGTGAGATATT 422
Db 1495 GATATGCTCCATATGATAGCCCAATAGGACCTTTCATTAAGCTCAATGGGTGAGATATT 1554
QY 423 ACGTAAATGSCCCGCTGCTGCTGACCGCCCAACGACCCCGCCATTGACGTCAATATGAC 482
Db 1555 ACGTAAATGSCCCGCTGCTGCTGACCGCCCAACGACCCCGCCATTGACGTCAATATGAC 1614
QY 483 TGAAGTCAATGACGGTAAATGSCCCGCTGCTGACCGCCCAACGACCCCGCCATTGAC 542
Db 1615 TGAAGTCAATGACGGTAAATGSCCCGCTGCTGACCGCCCAACGACCCCGCCATTGAC 1674
QY 543 CTTTCTTACTTGGCAGTACATCTACGATATGATGATGATGATGATGATGATGATGAT 602
Db 1675 CTTTCTTACTTGGCAGTACATCTACGATATGATGATGATGATGATGATGATGATGAT 1734
QY 603 TTGGCAGTACATCAATGAGCGGTGATAGCGGTTTGAAGTCAAGGAGTTTCAAGTCTCA 662
Db 1735 TTGGCAGTACATCAATGAGCGGTGATAGCGGTTTGAAGTCAAGGAGTTTCAAGTCTCA 1794
QY 663 CCCCATTTGACGTCATATGAGGAGTTTGTGTCACCAAAATCAACGGGACTTTCCAAATG 722
Db 1795 CCCCATTTGACGTCATATGAGGAGTTTGTGTCACCAAAATCAACGGGACTTTCCAAATG 1854
QY 723 TCGTAAATTAACCCCCCGCTTGAACGCAATGGGCGGTGATGGGTGATGGGAGTCTTA 782
Db 1855 TCGTAAATTAACCCCCCGCTTGAACGCAATGGGCGGTGATGGGTGATGGGAGTCTTA 1914
QY 783 TATTAAGCAGAGCTCGTTTATGTAACCGTCAGATCGCTGGAAGCGCATTCACAGCTGTT 842
Db 1915 TATTAAGCAGAGCTCGTTTATGTAACCGTCAGATCGCTGGAAGCGCATTCACAGCTGTT 1974
QY 843 TGAAGTCAATGACCGGCAACCGGACCGATCCAGCTCCGCGCGGGAACGGTGCATTGG 902
Db 1975 TGAAGTCAATGACCGGCAACCGGACCGATCCAGCTCCGCGCGGGAACGGTGCATTGG 2034
QY 903 AAGCGGAGTTCCCGCTGTCACAGAGTGAAGTAAAGTACCGCTTATAGCTTATAGGCAC 962
Db 2035 AAGCGGAGTTCCCGCTGTCACAGAGTGAAGTAAAGTACCGCTTATAGGCAC 2094
QY 963 CCGTTGGCTCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1022
Db 2095 CCGTTGGCTCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2154
QY 1023 CTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1082
Db 2155 CTTATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2214
QY 1083 CCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1142
Db 2215 CCACTCCCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2274
QY 1143 AACTATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1202
Db 2275 AACTATCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2334
QY 1203 ATTTTACAGAGATGGGGTCCCATTTATTTATTAACAATTCACATATTAACAACAGCCGCTC 1262

Db 2335 ATTTTACAGATGGGGCCCATTTATTTATTAACAATTCACATATCAACAAAGCCGTC 2394
Qy 1263 CCCCGTCCCGCAGTTTATTTATTAACAATGCGTGGGATCTCCAGCAATCTCGGGTACG 1322
Db 2395 CCCCGTCCCGCAGTTTATTTATTAACAATGCGTGGGATCTCCAGCAATCTCGGGTACG 2454
Qy 1323 TGTTCGGGACATGAGGCTTCTTCGGGTAGCGGTGGGGCTTCACATCCGAGCCCTGTGTC 1382
Db 2455 TGTTCGGGACATGAGGCTTCTTCGGGTAGCGGTGGGGCTTCACATCCGAGCCCTGTGTC 2514
Qy 1383 CATGCCCTCCAGGACCTCATGCTCGGTGGGAGCTCTTGTCTCCAAACATGAGGAGCCAGA 1442
Db 2515 CATGCCCTCCAGGACCTCATGCTCGGTGGGAGCTCTTGTCTCCAAACATGAGGAGCCAGA 2574
Qy 1443 CTTAGGACAGCAGATGAGCCACACACACAGTGCACAGGCGGTGGCGGTAGAGG 1502
Db 2575 CTTAGGACAGCAGATGAGCCACACACACAGTGCACAGGCGGTGGCGGTAGAGG 2634
Qy 1503 TATGTGTCTGAAATGAGCTCGAGATCGGGCTCGCACCGCTGACGAGATGAGAACTT 1562
Db 2635 TATGTGTCTGAAATGAGCTCGAGATCGGGCTCGCACCGCTGACGAGATGAGAACTT 2694
Qy 1563 AAGGACGCGGACAGAAAGAGACGCGACGCTGAGTTGTTGTTCTGATTAAGATCGAG 1622
Db 2695 AAGGACGCGGACAGAAAGAGAGACGCGACGCTGAGTTGTTGTTCTGATTAAGATCGAG 2754
Qy 1623 GTAACCTCCGTTGGGAGCTGTTAAAGGTTGAGGAGGAGTGAAGCTGAGAGTCTGTT 1682
Db 2755 GTAACCTCCGTTGGGAGCTGTTAAAGGTTGAGGAGGAGTGAAGCTGAGAGTCTGTT 2814
Qy 1683 GCTGCGCGCGCGCGCACACAGCATATATGCTGACAGACTGTTCTTTCCATG 1742
Db 2815 GCTGCGCGCGCGCGCACACAGCATATATGCTGACAGACTGTTCTTTCCATG 2874
Qy 1743 GGTCTTTTCTGCACTCACCGTCC 1765
Db 2875 GGTCTTTTCTGCACTCACCGTCC 2897

RESULT 10
US-09-554-337-1
; Sequence 1, Application US/09554337
; Patent No. 6475780
; GENERAL INFORMATION:
; APPLICANT: Partridge, Mark
; APPLICANT: Li, Xiaomao
; TITLE OF INVENTION: ALPHAVIRUS VECTORS FOR PARAMYXOVIRUS VACCINES
; FILE REFERENCE: 1038-1042 MIS
; CURRENT APPLICATION NUMBER: US/09/554,337
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/065,791
; PRIOR FILING DATE: 1997-11-14
; PRIOR APPLICATION NUMBER: PCT/CA98/01064
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent Ver. 2.1
; SEQ ID NO 1
; LENGTH: 15538
; TYPE: DNA
; ORGANISM: respiratory syncytial virus
US-09-554-337-1

Query Match 90.0%; Score 1590.6; DB 4; Length 15538;
Best Local Similarity 98.5%; Pred. No. 0;
Matches 1605; Conservative 0; Mismatches 24; Indels 0; Gaps 0;

Qy 125 ATATGAGCTATGAGCCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 184
Db 234 AGATGAGCTATGAGCCATGATGATGATGATGATGATGATGATGATGATGATGATGATG 293
Qy 185 GCCAGATGCCAATATGACCGCATGTTGACATGATGATGATGATGATGATGATGATGAT 244

Db 294 GCTCATGCTCCAAATTAACCGCATGTTGACATGATGATGATGATGATGATGATGATGAT 353
Qy 245 CAATTAAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 304
Db 354 CAATTAAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 413
Qy 305 TAAATGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 364
Db 414 TAAATGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 473
Qy 365 ATGTTCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 424
Db 474 ATGTTCCCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 533
Qy 425 GGTAACTGCGGACCTTGGGAGTACATCAATGATGATGATGATGATGATGATGATGATGATG 484
Db 534 GGTAACTGCGGACCTTGGGAGTACATCAATGATGATGATGATGATGATGATGATGATGATG 593
Qy 485 AGGTCAATGACGGTAATGAGCCCGCTGSCATTAATGCCAGTACATGATGATGATGATGATG 544
Db 594 AGGTCAATGACGGTAATGAGCCCGCTGSCATTAATGCCAGTACATGATGATGATGATGATG 653
Qy 545 TTCTTCTTGGGAGTACATCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 604
Db 654 TTCTTCTTGGGAGTACATCAATGATGATGATGATGATGATGATGATGATGATGATGATGAT 713
Qy 605 GGCAGATCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 664
Db 714 GGCAGATCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 773
Qy 665 CCATTAAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 724
Db 774 CCATTAAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 833
Qy 725 GATTAATGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 784
Db 834 GATTAATGAGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 893
Qy 785 TAAAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 844
Db 894 TAAAGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 953
Qy 845 ACCTTCATGAAAGACACCGGAGCCGATCCAGCTCCGCGCGGAGACGGTCAATGGAA 904
Db 954 ACCTTCATGAAAGACACCGGAGCCGATCCAGCTCCGCGCGGAGACGGTCAATGGAA 1013
Qy 905 CCGGATTTCCCGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 964
Db 1014 CCGGATTTCCCGGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1073
Qy 965 CTTTGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1024
Db 1074 CTTTGGCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1133
Qy 1025 TATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1084
Db 1134 TATGCTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1193
Qy 1085 ACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1144
Db 1194 ACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1253
Qy 1145 CTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1204
Db 1254 CTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1313
Qy 1205 TTTTAAGAGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1264
Db 1314 TTTTAAGAGATGAGGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1373
Qy 1265 CCGTGCAGGATTTTATTAACATGAGGATGATGATGATGATGATGATGATGATGATGATGATG 1324

Db	1374	CCGGGCCCGCAGTTTATTATTAACAAATAGCGTGGGATCTCCACGCGAACTCGGGNACGTG	1433
QY	1325	TTCCGGACATGGGCGCTTTCTCCGGTAGGGGTGGGGCTTCCAAATCCGAGCCCTGGTCCCA	1384
Db	1434	TTCCGGACATGGGCTTTCTCCGGTAGGGCGGAGCTTCCAAATCCGAGCCCTGGTCCCA	1493
QY	1385	TGCCTCCAGCAGCTCATGTGGCTCGGAGGCTCTTGTCTCCAAACATGGAGGCGAGACT	1444
Db	1494	TGCCTCCAGCGGCTCATGTGGCTCGGAGGCTCTTGTCTCCAAACATGGAGGCGAGACT	1553
QY	1445	TAGGCACAGCACATGCCACCAACCAAGTGTGCCGACAAAGGCCGTGGCGGTAAAGGTA	1504
Db	1554	TAGGCACAGCAACATGCCACCAACCAAGTGTGCCGACAAAGGCCGTGGCGGTAAAGGTA	1613
QY	1505	TGTGTCTGAAATAGAGCTCGGAGATCGGGCTCGACCGCTAGCGAGATGGAAGAATTAA	1564
Db	1614	TGTGTCTGAAATAGAGCTCGGAGATCGGGCTCGACCGCTAGCGAGATGGAAGAATTAA	1673
QY	1565	GGCAGCGGCAGAAAGAGACGACGAGCTGAGTTGTTGTCTGATTAAGAGTCAGAGCT	1624
Db	1674	GGCAGCGGCAGAAAGAGATGACGAGGAGCTGAGTTGTTGATTAAGAGTCAGAGAGT	1733
QY	1625	AACATCCGGTTCCGGAGCTGTTAAACGTTGAGAGGGAGTATGCTGAGACAGTAATCGTTGC	1684
Db	1734	AACATCCGGTTCCGGAGCTGTTAAACGTTGAGAGGGAGTATGCTGAGACAGTAATCGTTGC	1793
QY	1685	TGCCGCGCGCCACACAGACATTAATAGCTGACAGATTAACGAGACTGTTCTTTCCATGGG	1744
Db	1794	TGCCGCGCGCCACACAGACATTAATAGCTGACAGACTAACAGACTGTTCTTTCCATGGG	1853
QY	1745	TCTTTTTCG 1753	
Db	1854	TCTTTTTCG 1862	

RESULT 11
 US-08-345-913-1
 : Sequence 1, Application US/08345913
 : Patent No. 5641665
 : GENERAL INFORMATION:
 : APPLICANT: Hobart, Peter
 : APPLICANT: Parker, Suzanne
 : APPLICANT: Margalith, Michael
 : APPLICANT: Khatri, Shrin
 : TITLE OF INVENTION: PLASMIDS SUITABLE FOR IL-2 EXPRESSION
 : NUMBER OF SEQUENCES: 1
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Knobbe, Martens, Olson and Bear
 : STREET: 620 Newport Center Drive 16th Floor
 : CITY: Newport Beach
 : STATE: CA
 : COUNTRY: USA
 : ZIP: 92660
 : COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette
 : COMPUTER: IBM Compatible
 : OPERATING SYSTEM: DOS
 : SOFTWARE: FASTSEQ Version 1.5
 : CURRENT APPLICATION DATA:
 : APPLICATION NUMBER: US/08/345,913
 : FILING DATE:
 : CLASSIFICATION: 435
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER:
 : FILING DATE:
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Ways Venako, Nancy
 : REGISTRATION NUMBER: 36,298
 : REFERENCE/DOCKET NUMBER: VICAL.043A
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 619-235-8550
 : TELEFAX: 619-235-0176
 : TELEX:

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? INFORMATION FOR SEQ ID NO: 1 :
?
? SEQUENCE CHARACTERISTICS:
?
? LENGTH: 4928 base pairs
?
? TYPE: nucleic acid
?
? STRANDEDNESS: single
?
? TOPOLOGY: linear
?
? MOLECULE TYPE: cDNA
?
? HYPOTHETICAL: NO
?
? ANTI-SENSE: NO
?
? FRAGMENT TYPE:
?
? ORIGINAL SOURCE:
?
? FEATURE:
?
? NAME/KEY: Coding Sequence
?
? LOCATION: 1689...2159
?
? OTHER INFORMATION:
?
US-08-345-913-1

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Query Match	89.5%;	Score 1581;	DB 1;	Length 4928;
Best Local Similarity	99.0%;	Pred. No. 0;		
Matches 1612;	Conservative	0;	Mismatches 15;	Indels 2;
			Gaps	2

QY	140	CATTGCACTACGTTGATCCGATCATATAATGTCATTTAATGCGCCAGTCCAAAT	199
Db	1	CATTGCACTACGTTGATCTATATCATATAATGTCATTTAATGCGTCATGCCAAAT	60
QY	200	GACCGCATGTTGACATGTAATTATGCACTAGTATTAAATAGTAATCAATTACGGGGTCAT	259
Db	61	GACCGCATGTTGACATGTAATTATGCACTAGTATTAAATAGTAATCAATTACGGGGTCAT	120
QY	260	TAGTTTCATAGCCCATATATGGAAGTTCCGCGTTACATACTTAACGTAATAGCCCGCTG	319
Db	121	TAGTTTCATAGCCCATATATGGAAGTTCCGCGTTACATACTTAACGTAATAGCCCGCTG	180
QY	320	GCTAACCGCCCAAGACGCCCCCGCCCATGTGACGTCAATATAGCATATGTCCTCCATAGTAA	379
Db	181	GCTAACCGCCCAAGACGCCCCCGCCCATGTGACGTCAATATAGCATATGTCCTCCATAGTAA	240
QY	380	CGCCAAATAGGAGACTTTCATTTGACGTCAATGGTGGAGATATTTCACGTAAACCTGCCACT	439
Db	241	CGCCAAATAGGAGACTTTCATTTGACGTCAATGGTGGAGATATTTCACGTAAACCTGCCACT	300
QY	440	TGGCAGATACATCAAGTGTATATATGCCAAGTCC-GCCCCCTATTGACGTCAATAGCGGT	498
Db	301	TGGCAGATACATCAAGTGTATATATGCCAAGTCCGCCCCCTATTGACGTCAATAGCGGT	360
QY	499	AAATGGCCCCGCTGGCAATATGCCAGTACATAGACCTTAACGGGACTTTCTCTAATTGGGAC	558
Db	361	AAATGGCCCCGCTGGCAATATGCCAGTACATAGACCTTAACGGGACTTTCTCTAATTGGGAC	420
QY	559	TACATCTACGATTAATAGTCATCGCTATTACATGATGATGCGGTTTGGCAGTACATCAAT	618
Db	421	TACATCTACGATTAATAGTCATCGCTATTACATGATGATGCGGTTTGGCAGTACATCAAT	480
QY	619	GGGCGTGGATAGCGGTTTGACTCACGGGGATTTTCCAACTTCCACCCCAATTGACGTCAAT	678
Db	481	GGGCGTGGATAGCGGTTTGACTCACGGGGATTTTCCAACTTCCACCCCAATTGACGTCAAT	540
QY	679	GGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAATTAACCCCGCC	738
Db	541	GGGAGTTTGTTTTGGCACCAAAATCAACGGGACTTTCCAAAATGTCGTAATTAACCCCGCC	600
QY	739	CCGTTGACGCAAAATGGGCGGTAGGCGGTGTACGGTGGAGAGTCTATATAAGCAGAGCTCGT	798
Db	601	CCGTTGACGCAAAATGGGCGGTAGGCGGTGTACGGTGGAGAGTCTATATAAGCAGAGCTCGT	660
QY	799	TTAGTGAACCGTCAAGATGCGCTGGAAGACGCATCCACGCTGTTTGGACTTCATAGAAGA	858
Db	661	TTAGTGAACCGTCAAGATGCGCTGGAAGACGCATCCACGCTGTTTGGACTTCATAGAAGA	720
QY	859	CACCGGGAACGATTCACAGCTCCGCGGCGCGGGAACGGTGCATTTGAAACGCGGATTTCCCGGT	918
Db	721	CACCGGGAACGATTCACAGCTCCGCGGCGCGGGAACGGTGCATTTGAAACGCGGATTTCCCGGT	780

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QY 919 GCCAAGAGTACGTAAGTACCGCTATAGACTATAGGACACCCCTTTGGCTTATG 978
DB 781 GCCAAGAGTACGTAAGTACCGCTATAGACTATAGGACACCCCTTTGGCTTATG 840
QY 979 CATGCTATCTGTTTGGCTTGGGGCTATACCCCCCTTCTTATGCTATAGTGA 1038
DB 841 CATGCTATCTGTTTGGCTTGGGGCTATACCCCCCTTCTTATGCTATAGTGA 900
QY 1039 TGGATATGCTTACGCTATAGCGGTGATTTAGCACTTATTTAGCACTCCCTATTTGT 1098
DB 901 TGGATATGCTTACGCTATAGCGGTGATTTAGCACTTATTTAGCACTCCCTATTTGT 960
QY 1099 GACGATATCTTCCATTAATCAATCAATGCTCTTTGCCACACTATCTTATTTGGC 1158
DB 961 GACGATATCTTCCATTAATCAATCAATGCTCTTTGCCACACTATCTTATTTGGC 1020
QY 1159 TATATGCAATATCTCTCTTCCAGAGTACGACGCACTCTGATTTTATACAGATGGG 1218
DB 1021 TATATGCAATATCTCTCTTCCAGAGTACGACGCACTCTGATTTTATACAGATGGG 1080
QY 1219 GTCCCATTTTATTTTACAAATTCATATATACAAACGCGTCCCGGCGGAGTT 1278
DB 1081 GTCCCATTTTATTTTACAAATTCATATATACAAACGCGTCCCGGCGGAGTT 1140
QY 1279 TTTATTAACATATAGCGGTGATCTCAACGCAATCTCGGGTACGTGTTCCGCAATGGG 1338
DB 1141 TTTATTAACATATAGCGGTGATCTCAACGCAATCTCGGGTACGTGTTCCGCAATGGG 1200
QY 1339 TCTTTCTCGGTAGGGGTGGGCTTCCATCTCCAGGCTTGGTCCCATATGCTCCAGGCACT 1398
DB 1201 TCTTTCTCGGTAGGGGTGGGCTTCCATCTCCAGGCTTGGTCCCATATGCTCCAGGCACT 1260
QY 1399 CATGCTGCTTGGGAGCTCTCTGCTCCCAACAGTGAAGGCGCACTTATAGGACAGCAGCA 1458
DB 1261 CATGCTGCTTGGGAGCTCTCTGCTCCCAACAGTGAAGGCGCACTTATAGGACAGCAGCA 1320
QY 1459 TGGCCACACCAACAGTGTGCGGCAAGGCGGTAGGGTATGTCTGAAAATG 1518
DB 1321 TGGCCACACCAACAGTGTGCGGCAAGGCGGTAGGGTATGTCTGAAAATG 1380
QY 1519 AGCTCGAGATCGGGCTTGGCAGCCCTGACGCAATGGAAGACTTATAGGACGCGGAGAG 1578
DB 1381 AGCTCGAGATCGGGCTTGGCAGCCCTGACGCAATGGAAGACTTATAGGACGCGGAGAG 1440
QY 1579 AGACGAGGAGAGTGAATGTGTTGTTGATTAAGATCAAGAGTAATCCCGTTGCGG 1638
DB 1441 AGACGAGGAGAGTGAATGTGTTGTTGATTAAGATCAAGAGTAATCCCGTTGCGG 1500
QY 1639 -TGTGTATTAAGGTGAGGAGTGTAGTCTGAGCACTGCTGCTGCGCGCGGCGC 1697
DB 1501 TGTGTGTATTAAGGTGAGGAGTGTAGTCTGAGCACTGCTGCTGCGCGCGGCGC 1560
QY 1698 ACCAGATATATAGCTTACAGACTTACGAGCTGTTCTTTCCATGGGTCTTTTCTGAGT 1757
DB 1561 ACCAGATATATAGCTTACAGACTTACGAGCTGTTCTTTCCATGGGTCTTTTCTGAGT 1620
QY 1758 CACGCTCT 1766
DB 1621 CACGCTCT 1629

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RESULT 12

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US-08-818-562-1
; Sequence 1, Application US/08818562
; Patent No. 6147055
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michal
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khatibi, Shirin
; TITLE OF INVENTION: Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.008001
; CURRENT APPLICATION NUMBER: US/08/818,562

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; CURRENT FILING DATE: 1997-03-14
; EARLIER APPLICATION NUMBER: US 08/345,913
; EARLIER FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-08-818-562-1

Query Match      89.5%; Score 1581; DB 3; Length 4928;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1612; Conservative 0; Mismatches 15; Indels 2; Gaps 2;

QY 140 CATTCATACGTTGATTCGATATCATATATATGATCATTTATATTTGGCCCATATAT 199
DB 1 CATTCATACGTTGATTCGATATCATATATATGATCATTTATATTTGGCTCATATAT 60
QY 200 GACCGCATGTTGATTCGATATCATATATATGATCATTTATATTTGGGCTCAT 259
DB 61 GACCGCATGTTGATTCGATATCATATATATGATCATTTATATTTGGGCTCAT 120
QY 260 TAGTTATAGCCCATATATATGATTCGATATCATATATATGATCATTTATATTTGGGCTCAT 319
DB 121 TAGTTATAGCCCATATATATGATTCGATATCATATATATGATCATTTATATTTGGGCTCAT 180
QY 320 GCTGACCGCCCAACGACCCCGCCCATGATGATGATGATGATGATGATGATGATGATGAT 379
DB 181 GCTGACCGCCCAACGACCCCGCCCATGATGATGATGATGATGATGATGATGATGATGAT 240
QY 380 CGCATATATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGATATCAT 439
DB 241 CGCATATATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGATATCAT 300
QY 440 TGGCAGTATCATATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGAT 498
DB 301 TGGCAGTATCATATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGAT 360
QY 499 AAATGCGCGCGCTGATATGATTCGATATCATATATATGATTCGATATCATATATATGAT 558
DB 361 AAATGCGCGCGCTGATATGATTCGATATCATATATATGATTCGATATCATATATATGAT 420
QY 559 TATATATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGATATCAT 618
DB 421 TATATATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGATATCAT 480
QY 619 GGGCGTATGATGATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGAT 678
DB 481 GGGCGTATGATGATGATTCGATATCATATATATGATTCGATATCATATATATGATTCGAT 540
QY 679 GGGAGTTTGTGTTGGACCAAAATCAAGGAGTTTCCAAATGCTGATATTAAGCAGAGTCTGT 738
DB 541 GGGAGTTTGTGTTGGACCAAAATCAAGGAGTTTCCAAATGCTGATATTAAGCAGAGTCTGT 600
QY 739 CCGTTAGCGCAATATGCGGTGATGATTCGATATCATATATATGATTCGATATCATATAT 798
DB 601 CCGTTAGCGCAATATGCGGTGATGATTCGATATCATATATATGATTCGATATCATATAT 660
QY 799 TTAGTGAACGCTGATGATTCGATATCATATATATGATTCGATATCATATATATGATTCG 858
DB 661 TTAGTGAACGCTGATGATTCGATATCATATATATGATTCGATATCATATATATGATTCG 720
QY 859 CACCGGAGCGATTCAGCTTCCGCGCGCGGAGATTCGATATCATATATATGATTCGATAT 918
DB 721 CACCGGAGCGATTCAGCTTCCGCGCGCGGAGATTCGATATCATATATATGATTCGATAT 780
QY 919 GCCAAGAGTACGTAAGTACCGCTATATATGATTCGATATCATATATATGATTCGATAT 978
DB 781 GCCAAGAGTACGTAAGTACCGCTATATATGATTCGATATCATATATATGATTCGATAT 840

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QY 979 CATGTAATCTGTTTGGCTTGGGCGCTATACACCCCGCTTCTTATGCTATAGTGA 1038
DB 841 CATGTAATCTGTTTGGCTTGGGCGCTATACACCCCGCTTCTTATGCTATAGTGA 900
QY 1039 TGGTATAGCTTACCTATAGGCGGTGTTTATGACCTATTTAGACACTCCCTATTGGT 1098
DB 901 TGGTATAGCTTACCTATAGGCGGTGTTTATGACCTATTTAGACACTCCCTATTGGT 960
QY 1099 GACGATACCTTCCATTAATCAATACATGAGCTGTTGGCAACATCTCTATTGGG 1158
DB 961 GACGATACCTTCCATTAATCAATACATGAGCTGTTGGCAACATCTCTATTGGG 1020
QY 1159 TATATGCCAATACCTCTGCTCTGAGAGACTGACACGAGCTCTGATTTTATACAGATGGG 1218
DB 1021 TATATGCCAATACCTCTGCTCTGAGAGACTGACACGAGCTCTGATTTTATACAGATGGG 1080
QY 1219 GTCCCATTTATTTATTAACAATTCACATATACAAACGCGCTGCCCCCGTGGCCGACATT 1278
DB 1081 GTCCCATTTATTTATTAACAATTCACATATACAAACGCGCTGCCCCCGTGGCCGACATT 1140
QY 1279 TTTATTAACATATGCGGTGGGATCTCCACGCGAATCTCGGGTAGTGTTCCGGACATGGG 1338
DB 1141 TTTATTAACATATGCGGTGGGATCTCCACGCGAATCTCGGGTAGTGTTCCGGACATGGG 1200
QY 1339 TCTTCTCCGCTAGCGGTGGGCTTCCACATCCGAGCCTGCTGCTCCATGCTCCAGGACT 1398
DB 1201 TCTTCTCCGCTAGCGGTGGGCTTCCACATCCGAGCCTGCTGCTCCATGCTCCAGGACT 1260
QY 1399 CATGTCGCTCGGACGCTCTTCTGCTCCAAACAGTGAAGGCGACATTTAGGACACGACGA 1458
DB 1261 CATGTCGCTCGGACGCTCTTCTGCTCCAAACAGTGAAGGCGACATTTAGGACACGACGA 1320
QY 1459 TGCCCAACCAACAGTGTGCGGCAAGGCGGTGGGAGTATGTCTGAAATG 1518
DB 1321 TGCCCAACCAACAGTGTGCGGCAAGGCGGTGGGAGTATGTCTGAAATG 1380
QY 1519 AGCTCGAGATCGGGCTCGACGCTGACAGCAGATGGAAGCTTTAAGGACGCGGACGAAG 1578
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QY 1579 AAGACGAGGAGCTGATGTTGTTGTTGATTAAGTACAGAGTAACTCCCGTTGGCG 1638
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QY 1639 -TCTGTTAACGCTGAGGAGGAGTGTAGTGTAGACAGTACTGTTGCTGCGGCGCGCC 1697
DB 1501 TTTCTGTTAACGCTGAGGAGGAGTGTAGTGTAGACAGTACTGTTGCTGCGGCGCGCC 1560
QY 1698 ACCAGACATATAGCTGACAGACTTAACGAGCTGTTCCCTTCCATGGGCTTTTCTGAGT 1757
DB 1561 ACCAGACATATAGCTGACAGACTTAACGAGCTGTTCCCTTCCATGGGCTTTTCTGAGT 1620
QY 1758 CACCGTCTT 1766
DB 1621 CACCGTCTT 1629

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RESULT 13
US-09-628-445-1
; Sequence 1, Application US/09628445
; Patent No. 6395588
; GENERAL INFORMATION:
; APPLICANT: Hobart, Peter M.
; APPLICANT: Margalith, Michael
; APPLICANT: Parker, Suzanne E.
; APPLICANT: Khachibi, Shitlin
; TITLE OF INVENTION: Cancer Treatment Utilizing Plasmids Suitable for IL-2 Expression
; FILE REFERENCE: 1530.0080002
; CURRENT APPLICATION NUMBER: US/09/628,445
; CURRENT FILING DATE: 2000-07-28
; PRIOR APPLICATION NUMBER: US 08/818,562
; PRIOR FILING DATE: 1997-03-14

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; PRIOR APPLICATION NUMBER: US 08/345,913
; PRIOR FILING DATE: 1994-11-28
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: Patent Ver. 2.0
; SEQ ID NO 1
; LENGTH: 4928
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1689)..(2159)
US-09-628-445-1

Query Match      89.5%; Score 1581; DB 4; Length 4928;
Best Local Similarity 99.0%; Pred. No. 0;
Matches 1612; Conservative 0; Mismatches 15; Indels 2; Gaps 2;

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QY 140 CATTGATATCGTTGATTCGCTATCATATATGTACTATTATTTGGCCCATGCTCAAT 199
DB 1 CATTGATATCGTTGATTCGCTATCATATATGTACTATTATTTGGCCCATGCTCAAT 60
QY 200 GACCGCATGTTGACATTTGATTTAGACAGTTATTAATAGTAATCAATTAGCGGCTAT 259
DB 61 GACCGCATGTTGACATTTGATTTAGACAGTTATTAATAGTAATCAATTAGCGGCTAT 120
QY 260 TAGTTATAGCCCATATATAGAGTTCCGCTTACATTAACCTTACGTTAATGCGCCCTG 319
DB 121 TAGTTATAGCCCATATATAGAGTTCCGCTTACATTAACCTTACGTTAATGCGCCCTG 180
QY 320 GCTGACCGCCCAACGACCCCGCCCATGAGCTCAATTAAGACGTATGTTCCCATATGTA 379
DB 181 GCTGACCGCCCAACGACCCCGCCCATGAGCTCAATTAAGACGTATGTTCCCATATGTA 240
QY 380 CGCCATATAGGACTTTCCATGACGTCATGAGTGAAGTGAATTAAGGTAATGCGCACT 439
DB 241 CGCCATATAGGACTTTCCATGACGTCATGAGTGAAGTGAATTAAGGTAATGCGCACT 300
QY 440 TGGCAGTACATCAAGTGTATCATATAGCCAAAGTC--GCCCTTATGACGTCATAGCGGT 498
DB 301 TGGCAGTACATCAAGTGTATCATATAGCCAAAGTC--GCCCTTATGACGTCATAGCGGT 360
QY 499 AATGCGCCGCTGCGATTTATGCCCATATGACCTTACGGAATCTTCTTACTTGGCAG 558
DB 361 AATGCGCCGCTGCGATTTATGCCCATATGACCTTACGGAATCTTCTTACTTGGCAG 420
QY 559 TACATATAGTATTTAGTCAATGCTTATACAGTGTATGCGGTTTGGAGTAATCAAT 618
DB 421 TACATATAGTATTTAGTCAATGCTTATACAGTGTATGCGGTTTGGAGTAATCAAT 480
QY 619 GGGCGGTATAGCGGTTTGAATCAAGGGAATTTCCAAAGTCTCCACCCCATGAGCTCAAT 678
DB 481 GGGCGGTATAGCGGTTTGAATCAAGGGAATTTCCAAAGTCTCCACCCCATGAGCTCAAT 540
QY 679 GGGAGTTTGTGGGACCAAAATCAACGGAATTTCCAAATGTCGTAATTAACCCGCGC 738
DB 541 GGGAGTTTGTGGGACCAAAATCAACGGAATTTCCAAATGTCGTAATTAACCCGCGC 600
QY 739 CCGTTAGCCCAATAGGCGGTAGCGGTGTAGCGGTGGAGGTCTATATTAAGAGAGTCT 798
DB 601 CCGTTAGCCCAATAGGCGGTAGCGGTGTAGCGGTGGAGGTCTATATTAAGAGAGTCT 660
QY 799 TTAGTAACGTCAGATGCTGTGAGAGACGCAATCCACGCTGTTTGAACCTCATAGAGA 858
DB 661 TTAGTAACGTCAGATGCTGTGAGAGACGCAATCCACGCTGTTTGAACCTCATAGAGA 720
QY 859 CACCGGACCGATCCAGCTTCGCGCGCGGGAACGCTGATTTGAAACGCGGATTTCCCGT 918
DB 721 CACCGGACCGATCCAGCTTCGCGCGCGGGAACGCTGATTTGAAACGCGGATTTCCCGT 780
QY 919 GCCAAGAGAGTATAGTACCGGCTATATAGCTTATAGGACACCCCTTGGCTGTATG 978
DB 781 GCCAAGAGAGTATAGTACCGGCTATATAGCTTATAGGACACCCCTTGGCTGTATG 840

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QY 979 CATGCTACTGTTTGGCTTGGGGCTATACACCCCGCTTCTATGCTATAGGTGA 1038
 DB 841 CATGCTACTGTTTGGCTTGGGGCTATACACCCCGCTTCTATGCTATAGGTGA 900
 QY 1039 TGGATGCTTACGCTTAGCGGGGTATGACCTATATGACCTCCCATATGCT 1098
 DB 901 TGGATGCTTACGCTTAGCGGGGTATGACCTATATGACCTCCCATATGCT 960
 QY 1099 GAGCATCTTCTTCTACTATCAATCAATGAGCTTCTTCCCAATCTCTATGCT 1158
 DB 961 GAGCATCTTCTTCTACTATCAATCAATGAGCTTCTTCCCAATCTCTATGCT 1020
 QY 1159 TATATGCAATCTCTCTCTTCCAGAGACTGACAGCACTCTGATTTTACAGATGG 1218
 DB 1021 TATATGCAATCTCTCTCTTCCAGAGACTGACAGCACTCTGATTTTACAGATGG 1080
 QY 1219 GTCCCATTTTATTTTCAAAATTCATATACAAAGCGCTGCGCGCGCGAGTT 1278
 DB 1081 GTCCCATTTTATTTTCAAAATTCATATACAAAGCGCTGCGCGCGCGAGTT 1140
 QY 1279 TTTATTAACATAGCTGAGATCTCCACGCAATCTCGGATAGCTGTTCCGACATGGG 1338
 DB 1141 TTTATTAACATAGCTGAGATCTCCACGCAATCTCGGATAGCTGTTCCGACATGGG 1200
 QY 1339 TCTTCTCGGATAGCTGAGGCTTCCACATCCGAGCCCTGCTCCATGCTCCAGCGCT 1398
 DB 1201 TCTTCTCGGATAGCTGAGGCTTCCACATCCGAGCCCTGCTCCATGCTCCAGCGCT 1260
 QY 1399 CATGCTGCTGCGAGCTTCTTGTCTCCACAGATGAGGCGCACTTACGACAGCA 1458
 DB 1261 CATGCTGCTGCGAGCTTCTTGTCTCCACAGATGAGGCGCACTTACGACAGCA 1320
 QY 1459 TGCCACACCAACAGCTGCTGCGGACAGGCGGCTGATGATGCTGAAATG 1518
 DB 1321 TGCCACACCAACAGCTGCTGCGGACAGGCGGCTGATGATGCTGAAATG 1380
 QY 1519 AGCTCGGAGATCGGCTGCGACCGCTGACCGAGTGAAGACTTAAGGACGCGGACAG 1578
 DB 1381 AGCTCGGAGATCGGCTGCGACCGCTGACCGAGTGAAGACTTAAGGACGCGGACAG 1440
 QY 1579 AAGACGAGGACGCTGATGCTGCTGCTGATTAAGTCAAGGTAATCTCCGTTGGCG 1638
 DB 1441 AAGATGAGGACGCTGATGCTGCTGCTGATTAAGTCAAGGTAATCTCCGTTGGCG 1500
 QY 1639 -TGTGTTAAGGAGGAGGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCC 1697
 DB 1501 TTGCTGTTAAGGAGGAGGAGTGTAGTCTGAGCAGTACTGTTGCTGCGCGCGCGCC 1560
 QY 1698 ACCAGACATTAATGCTGACAGACTTAAGCACTGTTCTTCCATGAGGCTTTTCTGCACT 1757
 DB 1561 ACCAGACATTAATGCTGACAGACTTAAGCACTGTTCTTCCATGAGGCTTTTCTGCACT 1620
 QY 1758 CACCGTCT 1766
 DB 1621 CACCGTCT 1629

RESULT 14
 US-09-340-798A-43
 Sequence 43, Application US/09340798A
 Patent No. 6534312
 GENERAL INFORMATION:

APPLICANT: SHIVER, JOHN W.
 LITIGANT: MARGARET A.
 PERRY, HELEN C.
 DAVIES, MARY-ELLEN M.
 FRED, DANIEL C.
 TITLE OF INVENTION: VACCINES COMPRISING SYNTHETIC GENES
 NUMBER OF SEQUENCES: 53
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: J. MARK HAND - MERCK & CO., INC.
 STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
 CITY: RAHWAY

STATE: NEW JERSEY
 COUNTRY: US
 ZIP: 07065-0907
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent in Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/09/340,798A
 FILING DATE: 28-Jun-1999
 CLASSIFICATION: <Unknown>
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: US/08/877,418
 FILING DATE: <Unknown>
 ATTORNEY/AGENT INFORMATION:
 NAME: HAND, J. MARK
 REGISTRATION NUMBER: 36,545
 REFERENCE/DOCKET NUMBER: 19729Y
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 908-594-3905
 TELEFAX: 908-594-4720
 INFORMATION FOR SEQ ID NO: 43:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 3547 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: both
 MOLECULE TYPE: cDNA
 SEQUENCE DESCRIPTION: SEQ ID NO: 43:
 US-09-340-798A-43

Query Match 89.1%; Score 1574.4; DB 4; Length 3547;
 Best Local Similarity 97.7%; Pred. No. 0;
 Matches 1607; Conservative 0; Mismatches 36; Indels 1; Gaps 1;
 QY 125 ATATTGGCTATTGGCCATTGACATGCTGTATTCGATCATATATGATATATTG 184
 DB 2 ATATTGGCTATTGGCCATTGACATGCTGTATTCGATCATATATGATATATTG 61
 QY 185 GCCCATGTCATATATGACCGCCATGTTGACATGATTAATGACTTATATGATAT 244
 DB 62 GCTCATGTCATATATGACCGCCATGTTGACATGATTAATGACTTATATGATAT 121
 QY 245 CAATTAGGAGGATCATTAATGATGATGATGATGATGATGATGATGATGATGATG 304
 DB 122 CAATTAGGAGGATCATTAATGATGATGATGATGATGATGATGATGATGATGATG 181
 QY 305 TAAATGCGCGCTGCTGACCGCCCAAGACCGCCCGCATTTGACGTCAATATGAGCT 364
 DB 182 TAAATGCGCGCTGCTGACCGCCCAAGACCGCCCGCATTTGACGTCAATATGAGCT 241
 QY 365 ATGTTCCCATATGATAGCCCAATAGGACTTTTCCATTTGACGTCAATAGGAGTATTTAC 424
 DB 242 ATGTTCCCATATGATAGCCCAATAGGACTTTTCCATTTGACGTCAATAGGAGTATTTAC 301
 QY 425 GGTAACTGCGCATTTGACGATACATCAAGTATATGATGATGATGATGATGATGATG 484
 DB 302 GGTAACTGCGCATTTGACGATACATCAAGTATATGATGATGATGATGATGATGATG 361
 QY 485 AGCTCAATAGCGTAATAGCGCGCTGCTGACATTTATGCGCATGATGATGATGATGATG 544
 DB 362 AGCTCAATAGCGTAATAGCGCGCTGCTGACATTTATGCGCATGATGATGATGATGATG 421
 QY 545 TTCTTACTGCGATATCTACGATTTATGATGATGATGATGATGATGATGATGATGATG 604
 DB 422 TTCTTACTGCGATATCTACGATTTATGATGATGATGATGATGATGATGATGATGATG 481
 QY 605 GGAGATACATCAATGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATG 664
 DB 482 GGAGATACATCAATGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATG 541
 QY 665 CCATTGACGTCAATGAGGCTGATGATGATGATGATGATGATGATGATGATGATGATG 724

Db	542	CCATTGACGTCAATGGAGATTGTTTGGACCAAAATCAACGGGACTTTCCAAATATC	601
QY	725	GTAATPAAACCCGCCCGTTGACGCAATAGGCGGTGAGCGTGGAGGCTATTA	784
Db	602	GTAACAACTCCGCCCATTTGACGCAATAGGGCGGTGAGCGTGAACGGTGGAGGCTATTA	661
QY	785	TAACCAAGGCTCGTTTAACTGAAACCGTCAAGATCGCCGTGAGAACGATCCAGCGTTTGG	844
Db	662	TAACCAAGGCTCGTTTAACTGAAACCGTCAAGATCGCCGTGAGAACGATCCAGCGTTTGG	721
QY	845	ACCTTCATAGAAAGACACGGGAGCGGATCAGGCTCCGGGCGGGAAAGGTGATTGGA	904
Db	722	ACCTTCATAGAAAGACACGGGAGCGGATCAGGCTCCGGGCGGGAAAGGTGATTGGA	781
QY	905	CGCGGATTCGCCGTGCCAAGAGTACGTAAGTACCGGCTATAGACTTATAGGCACACC	964
Db	782	CGCGGATTCGCCGTGCCAAGAGTACGTAAGTACCGGCTATAGACTTATAGGCACACC	841
QY	965	CTTTGGC-TCTTATGACATGCTATACTGTTTTGGCTTGGGGCTTATACCCCGCTTC	1022
Db	842	CTTTGGCTTCTTATGACATGCTATACTGTTTTGGCTTGGGGCTTATACCCCGCTTC	901
QY	1024	TTATGCTATAGGTGATGGTATAGCTTACGCTATAGCGGAGTTATGACATTATAGC	1088
Db	902	TCAATGTTATAGGTGATGGTATAGCTTACGCTATAGGTGAGTTATGACATTATAGC	961
QY	1084	CACCTCCCTATTGGTGAAGATACTTTCATTACTATACATTAACATGAGCTCTTTGCCACA	1143
Db	962	CACCTCCCTATTGGTGAAGATACTTTCATTACTATACATTAACATGAGCTCTTTGCCACA	1022
QY	1144	ACTATCTTATTTGGCTATATGCAATACTCTGTCTTCAAGAGCTGACACGGACTCTGTA	1201
Db	1022	ACTCTCTTATTTGGCTATATGCAATACACTCTCTTCAAGAGCTGACACGGACTCTGTA	1088
QY	1204	TTTTTACAGATGGGGGTCCTTTATTTATTAACAATTCACATATPACAACACCGCGTCC	1263
Db	1082	TTTTTACAGATGGGGGTCCTTTATTTATTTACAATTTCAATATPACAACACCGCGTCC	1144
QY	1264	CCCGTGCCCGAGTTTATTTAAACATAGCGTGGATCTCCACGCGAATCTTCGGGTAAGT	1322
Db	1142	CCAGTGCCCGAGTTTATTTAAACATAGCGTGGATCTCCACGCGAATCTTCGGGTAAGT	1201
QY	1324	GTTCCGAGCATAGGCGCTCTTCTCCGGTAGCGGTGGGCTTCCACATCCGAGCCCTGCTCC	1383
Db	1202	GTTCCGAGCATAGGCGCTCTTCTCCGGTAGCGGTGGGCTTCTTCAATCCGAGCCCTGCTCC	1261
QY	1384	ATGCTCTCCAGGAGCTCATGTCGTCTCCGCAAGTCTTGTCTCCCAACATGTGAGGCAAC	1444
Db	1262	ATGCTCTCCAGGAGCTCATGTCGTCTCCGCAAGTCTTGTCTCTTCAACATGTGAGGCAAC	1322
QY	1444	TTAGGCAAGACATGATGTCACACCAACAAGTGTCCGCAACAAGGCGGTGATAGGT	1503
Db	1322	TTAGGCAAGACATGATGTCACACCAACAAGTGTCCGCAACAAGGCGGTGATAGGT	1383
QY	1504	ATGTGTCTGAATAATGAGCTCGGAGATCGGAGCTCGACCGCTGACCGACAATGGAAGACTTA	1563
Db	1382	ATGTGTCTGAATAATGAGCTCGGAGAGCGGGGCTTGCACCGCTGACCATTTGGAAGACTTA	1441
QY	1564	AGGCAAGCGGCAAGAAAGAACGAGGAGCTGATGTTGTGTCTTGATTAAGTCAAGAG	1622
Db	1442	AGGCAAGCGGCAAGAAAGAACGAGGAGCTGATGTTGTGTCTTGATTAAGTCAAGAG	1501
QY	1624	TAACTCCCGTGGCGGTGCTTTAAACGGTGAAGGAGGAGTACTTGAGAGATGACTGGTTG	1683
Db	1502	TAACTCCCGTGGCGGTGCTTTAAACGGTGAAGGAGGAGTACTTGAGAGATGACTGGTTG	1561
QY	1684	CTGCGGACGCGGCAACAGACATTAATAGTGAACAATACGGAATGTTCTTTCCATGG	1743
Db	1562	CTGCGGACGCGGCAACAGACATTAATAGTGAACAATACGGAATGTTCTTTCCATGG	1622
QY	1744	GTTCTTTCTGCAGTACCGTCTT 1767	

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Db 1622 GTCTTTCTGAGTCACGCTCCTT 1645

RESULT 15
US-09-340-798A-1
: Sequence 1, Application US/09340798A
: Patent No. 6534112
GENERAL INFORMATION:
APPLICANT: SHIVER, JOHN W.
LIU, MARGARET A.
PERRY, HELEN C.
DAVIES, MARY-ELLEN M.
FREED, DANIEL C.
TITLE OF INVENTION: VACCINES COMPRISING SYNTHETIC GENES
NUMBER OF SEQUENCES: 53
CORRESPONDENCE ADDRESS:
ADDRESSEE: J. MARK HAND - MERCK & CO., INC.
STREET: 126 E. LINCOLN AVE., P.O. BOX 2000
CITY: RAHWAY
STATE: NEW JERSEY
COUNTRY: US
ZIP: 07065-0907
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/340,798A
FILING DATE: 28-Jun-1999
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/877,418
FILING DATE: <Unknown>
ATTORNEY/AGENT INFORMATION:
NAME: HAND, J. MARK
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 19729Y
TELECOMMUNICATION INFORMATION:
TELEPHONE: 908-594-3905
TELEFAX: 908-594-4720
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 4864 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: both
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-340-798A-1

Query Match 89.0%; Score 1572.8; DB 4; Length 4864;
Best Local Similarity 97.7%; Pred. No. 0;
Matches 1606; Conservative 0; Mismatches 37; Indels 1; Gaps 1

QY 125 ATATTGGTATTGGCATTGCATACGTTGTATTCGATCATATAATATGATCATTTATATG 184
DB 234 AGATTGGCTATTGGCCATTGCATACGTTGTATTCATATCATATATATGATCATTTATATG 293
QY 185 GCCCATGTCCTAATGACCGGCATGTTGACATTTGATTTATGCTAGTATTAATGATAT 244
DB 294 GCTCATGTCCTAATGACCGGCATGTTGACATTTGATTTATGCTAGTATTAATGATAT 353
QY 245 CAATTACGGGGTCAATTAGTTCATATAGCCATATATAGAGTTCGCGTTACATATACG 304
DB 354 CATTTACGGGGTCAATTAGTTCATATAGCCATATATAGAGTTCGCGTTACATATACG 413
QY 305 TAAATGGCCCGCTGGTGACCGCCCAACGACCCCGCCCATATGACGTCAATATAGCGT 364
DB 414 TAAATGGCCCGCTGGTGACCGCCCAACGACCCCGCCCATATGACGTCAATATAGCGT 473
QY 365 ATGTTCCCATATGTAACGCCCATATAGGAGATTTCATTTACATGACGTCAATAGGGTGAGTATTAC 424

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Db 474 ATGTTCCATAGTAAACGCAATAGGAGCTTTCATTGACGTCAATGGGTGAGTATTTAC 533
Qy 425 GGTAAATGCCCCACCTTGAGCAGTACATCAAGTATCATATGCAAGTCCGCCCTTATG 484
Db 534 GGTAAATGCCCCACCTTGAGCAGTACATCAAGTATCATATGCAAGTCCGCCCTTATG 593
Qy 485 ACCTCAATGACGTTAAATGCGCCCTGCGCATTTATGCCAGTACATGACTTTACGGGACT 544
Db 594 ACCTCAATGACGTTAAATGCGCCCTGCGCATTTATGCCAGTACATGACTTTATGGGACT 653
Qy 545 TTCTACTTGGCAGTACATCTAGATTTAGTCAATGCTATGATGAGTATGAGTATG 604
Db 654 TTCTACTTGGCAGTACATCTAGATTTAGTCAATGCTATGATGAGTATGAGTATG 713
Qy 605 GGCAGTACATCAATGAGCGTGAGTAGCGGTTTGAATCAAGGAGATTTTCAAGTCCACC 664
Db 714 GGCAGTACATCAATGAGCGTGAGTAGCGGTTTGAATCAAGGAGATTTTCAAGTCCACC 773
Qy 665 CCATTGACGTCAATGAGGATTTGTTTGGCACAATAATCAAGGAGCTTTTCAAAATGTC 724
Db 774 CCATTGACGTCAATGAGGATTTGTTTGGCACAATAATCAAGGAGCTTTTCAAAATGTC 833
Qy 725 GATAATACCCCGCCGCTGAGCAAAATGGCGGTAGCGGTATGAGTATGAGTATG 784
Db 834 GATAATACCCCGCCGCTGAGCAAAATGGCGGTAGCGGTATGAGTATGAGTATG 893
Qy 785 TAAGCAGAGCTCGTTTATGTAACCGTCAATCGCTGAGACGCTATCAAGCTGTTTG 844
Db 894 TAAGCAGAGCTCGTTTATGTAACCGTCAATCGCTGAGACGCTATCAAGCTGTTTG 953
Qy 845 ACCTCCATTAAGACACCGGAGCCGATCCAGCTCCGCGGCGGGAAAGGTGATTGAA 904
Db 954 ACCTCCATTAAGACACCGGAGCCGATCCAGCTCCGCGGCGGGAAAGGTGATTGAA 1013
Qy 905 CGCGGATTTCCCGGCGCAAGAGTACGTAAGTACCGGCTATGACTATAGGACACACC 964
Db 1014 CGCGGATTTCCCGGCGCAAGAGTACGTAAGTACCGGCTATGACTATAGGACACACC 1073
Qy 965 CTTTGGGCTCTTATGATGCTATGCTTTTGGCTTGGGGCTTATACACCCCGCTTCC 1023
Db 1074 CTTTGGGCTCTTATGATGCTATGCTTTTGGCTTGGGGCTTATACACCCCGCTTCC 1133
Qy 1024 TTATGCTATAGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1083
Db 1134 TCATGATATAGGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1193
Qy 1084 CACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1143
Db 1194 CACTCCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1253
Qy 1144 ACTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1203
Db 1254 ACTATCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1313
Qy 1204 TTTTTCAGGATGAGGCTCATTTATTTTAAATTTCAATATCAATATCAACACACCGTCC 1263
Db 1314 TTTTTCAGGATGAGGCTCATTTATTTTAAATTTCAATATCAATATCAACACACCGTCC 1373
Qy 1264 CCGTGCGCGCAGTTTATTTATTAACATAGGATGAGTCCACGCGGAATCTCGGGTACGT 1323
Db 1374 CCGTGCGCGCAGTTTATTTATTAACATAGGATGAGTCCACGCGGAATCTCGGGTACGT 1433
Qy 1324 GTTCCGACATGAGGCTTTCTCCGATAGCGGTGAGGCTTCCACATCCGAGCCCTGATCC 1383
Db 1434 GTTCCGACATGAGGCTTTCTCCGATAGCGGTGAGGCTTCCACATCCGAGCCCTGATCC 1493
Qy 1384 ATGCTTCAGCAGTCAATGATGCTGCTGCGCAGCTCTTTCCTCAACAGTGAAGCCAGAC 1443
Db 1494 ATGCTTCAGCAGTCAATGATGCTGCTGCGCAGCTCTTTCCTCAACAGTGAAGCCAGAC 1553
Qy 1444 TTAGGACACACAGATGAGCCACACACACAGTGTGCGGACAAAGCCGTTAGGAT 1503
Db 1554 TTAGGACACACAGATGAGCCACACACACAGTGTGCGGACAAAGCCGTTAGGAT 1613

Qy 1504 ATGTGTCTGAAAAATGAGCTTGGAGATCGGCTCGCACCCCTGACGCAATGGAAGCTTA 1563
Db 1614 ATGTGTCTGAAAAATGAGCTTGGAGATCGGCTCGCACCCCTGACGCAATTTGGAAGCTTA 1673
Qy 1564 AGGCAAGGACAGAAAGAACGACGAGCTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1623
Db 1674 AGGCAAGGACAGAAAGAACGACGAGCTGATGTTGTTGTTGTTGTTGTTGTTGTTGTTG 1733
Qy 1624 TAATCCCGTGGCGGTGCTGTTTAAACGTTGAGGACAGTGTAGTCTGAGCAGTACTGTTG 1683
Db 1734 TAATCCCGTGGCGGTGCTGTTTAAACGTTGAGGACAGTGTAGTCTGAGCAGTACTGTTG 1793
Qy 1684 CTGCGCGCGCGCGCACCAAGACATATATAGCTGACAGCTAAACGACTGTTTCCATG 1743
Db 1794 CTGCGCGCGCGCGCACCAAGACATATATAGCTGACAGCTAAACGACTGTTTCCATG 1853
Qy 1744 GTCTTTTCTGCACTACCGTCTT 1767
Db 1854 GTCTTTTCTGCACTACCGTCTT 1877

Search completed: January 30, 2004, 00:12:26
Job time : 135 secs